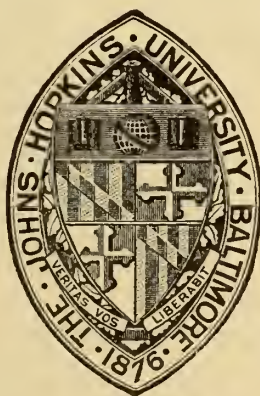


THE JOHNS HOPKINS UNIVERSITY
BALTIMORE, MARYLAND

CONFERRING OF DEGREES

AT THE CLOSE OF THE SEVENTY-SEVENTH ACADEMIC YEAR

JUNE 9, 1953



GILMAN HALL TERRACE

AT TEN A. M.

ORDER OF PROCESSION

CHIEF MARSHAL

HENRY T. ROWELL

Divisions

1. The President of the University,
the Chaplain, Honored Guests,
the Trustees
2. The Faculty
3. The Graduates

Marshals

FRITZ MACHLUP

C. VANN WOODWARD

JOHN C. GEYER

WALTER C. BOYER

MALCOLM C. MOOS

WILLIAM H. HOPPMANN

ROBERT R. LONG

CARL F. CHRIST

EVANS B. REID

RICHARD H. HOWLAND

GILBERT F. OTTO

LESLIE HELLERMAN

ARNOLD C. HARBERGER

USHERS

The ushers are members of Kappa Mu Chapter of Alpha Pi Omega,
national service fraternity.

ORGANIST

JOHN H. ELTERMANN

The audience is requested to stand as the academic procession moves into the area
and to remain standing until after the Invocation and the singing
of the National Anthem.

ORDER OF EXERCISES

I

PROCESSIONAL

“Victory March” by Turnbull

II

INVOCATION

REVEREND VERNON B. RICHARDSON
University Baptist Church

III

THE NATIONAL ANTHEM

IV

ADDRESS

WALTER SHERMAN GIFFORD

V

CONFERRING OF HONORARY DEGREES

HUGH LATIMER DRYDEN	— presented by Professor CLAUSER
LUTHER PFAHLER EISENHART	— presented by Professor BOAS
WALTER SHERMAN GIFFORD	— presented by Mr. BARTON
KARL SPENCER LASHLEY	— presented by Professor MORGAN
FREDERICK HERMAN VERHOEFF	— presented by Professor WOODS

VI

CONFERRING OF DEGREES

Bachelors of Arts	— presented by Dean COX
Bachelors of Engineering	— presented by Dean KOUWENHOVEN
Bachelors of Science in Engineering	
Masters of Science in Engineering	
Doctors of Engineering	
Bachelors of Science in Business	— presented by Professor ROY
Bachelors of Science	— presented by Dean MUMMA
Bachelors of Science in Nursing	
Masters of Education	
Masters of Science in Hygiene	— presented by Professor STEBBINS
Doctors of Science in Hygiene	
Masters of Public Health	
Doctors of Public Health	
Doctors of Medicine	— presented by Dean CHESNEY
Masters of Arts, School of Advanced International Studies	— presented by Professor HAINES
Masters of Arts	— presented by Professor LANCASTER
Doctors of Philosophy	

VII

BENEDICTION

VIII

RECESSIONAL

“Triumphal March” from the Fifth Symphony by Beethoven

The audience is requested to remain standing after the Benediction
until the graduates have left the area.

CANDIDATES FOR DEGREES

BACHELORS OF ARTS

- CHARLES ALLEN, of Bloomingdale, N. J.
JAMES VINCENT AQUAVELLA, of Brooklyn, N. Y.
YOOSIF MOHAMMED ARAB, of Baghdad, Iraq
ALVIN LOUIS BALKIND, of Baltimore, Md.
HARRY EDWARD BALVIN, of Baltimore, Md.
FRED PAXTON BARRIE, of Ridgewood, N. J.
* ROBERT LEHMAN BARTLETT, of Baltimore, Md.
RONALD BERNARD BERGGREN, of Staten Island, N. Y.
BERTRAM BERNHEIM, JR., of Pikesville, Md.
LEONARD BURTON BJORKMAN, of Towson, Md.
ROBERT KENNETH BROTMAN, of Newark, N. J.
CHARLES BROWN BROWNE, of Princeton, N. J.
EMIL AIRD BUDNITZ, JR., of Baltimore, Md.
THOMAS HOWELL BULPITT, of Chestnut Hill, Mass.
NICHOLAS GEORGE BYRON, of Gary, Ind.
ROBERT SILL BYRON, of Conneaut, Ohio
DONALD BINNING CALDWELL, of Manchester, Conn.
RONALD ROSS CAMERON, of Baltimore, Md.
VINCENT JULIAN CAPOWSKI, of N. Tarrytown, N. Y.
* RONALD AUGUST CHEZ, of Beverly Hills, Calif.
EDWARD CHARLES CHVATAL, JR., of Baltimore, Md.
GAYLORD LEE CLARK, JR., of Stevenson, Md.
* LEONARD EDWIN COHEN, of Baltimore, Md.
FRANK ROBERT COLE, of High Bridge, N. J.
DOUGLAS COULTER, JR., of Scarsdale, N. Y.
JAMES ROBERT CURTIS, of Windber, Pa.
JOHN GEORGE DERMONT, of Scranton, Pa.
* ALVIN DEUTSCH, of Forest Hills, N. Y.
* ROLAND RAYMOND EPPLEY, JR., of Baltimore, Md.
ROBERT ARTHUR ERLANDSON, of Hasbrouck Heights, N. J.
JAMES LAWRENCE ERWIN, of Baltimore, Md.
* JAMES FREEMAN ETHERIDGE, JR., of Baltimore, Md.
ROGER ARMSTRONG EVANS, of Great Neck, N. Y.
* WHITMER BENNETT FIROR, JR., of Baltimore, Md.
* WILLIAM NICHOLS FISHBEIN, of Baltimore, Md.
DONALD JOHN FLASTER, of Rockaway Park, N. Y.
JOSEPH HUGH FRAZER, JR., of Havre de Grace, Md.
LOUIS RICHARD GARCIA, of Scranton, Pa.
NICOLAS ANTONIO GARCIA, III, of Santurce, Puerto Rico
ROBERT ASHLEY GATTER, of Pittsburgh, Pa.
IRVING ISADORE GLICK, of Baltimore, Md.
BENNETT MERRILL GOLD, of Baltimore, Md.
CRAIG ALAN HAIGHT, of Long Island, N. Y.
RICHARD MICHAEL HALL, of Baltimore, Md.
* CLYDE LAURENCE HARDIN, of Greenwich, Conn.
JOHN EDMOND HARVEY, of New York, N. Y.
DONALD FREDERICK HEATH, of Washington, D. C.
DAVID WILLIAM HEESE, of Baltimore, Md.
ARTHUR CHARLES HELMER, of Baltimore, Md.
JOHN ROBERT HENDRICKSON, of Santa Cruz, Calif.
RALPH WERNER HEROLD, of Garfield, N. J.
WARREN ALLEN HOVIS, JR., of Baltimore, Md.
THOMAS CONTEE BOWIE HOWARD, IV, of Baltimore, Md.
WILLIAM LADD JACKSON, of Baltimore, Md.
SANFORD SWINDELL JENKINS, JR., of Baltimore, Md.
FRANKLIN ROSS JONES, JR., of Haddonfield, N. J.
* LEWIS ALAN KANN, of Baltimore, Md.
* STANLEY KANTOR, of Baltimore, Md.
* LOWELL RESTELL KING, of Salem, Ohio.
RONALD WAYNE KISTLER, of Baltimore, Md.
OTTO ANTHONY Klier, of Baltimore, Md.
WALTER JAY KNAUFF, of Baltimore, Md.
PAUL B. KOONS, JR., of Baltimore, Md.
ELLIOT VICTOR LABINER, of Flushing, N. Y.
WILLIAM BAIRD LANDIS, of Baltimore, Md.
* MARK RAYMOND LAZARUS, of Baltimore, Md.
* RICHARD DEAN LEE, of Baltimore, Md.
* GEORGE ALVIN LENTZ, JR., of Baltimore, Md.
* RUDOLPH KEMME LERNER, of Rochester, N. Y.
JOEL DAVID LESNICK, of New York, N. Y.
* EPHRAIM YALE LEVIN, of Baltimore, Md.
EDWARD WILLIAM LEYHE, of Baltimore, Md.
ROBERT LEONARD LILIEN, of Hillside, N. J.
* DON AUBREY MACCUBBIN, of Baltimore, Md.
* RICHARD ALAN MACKSEY, of Montclair, N. J.
DOUGLAS PEYTON MALONEY, of Clinton, N. Y.
SIMEON MARGOLIS, of Johnstown, Pa.
HOWARD STANLEY MARKLINE, JR., of White Hall, Md.
* JOSEPH ANTHONY MATERA, of White Plains, N. Y.
EDWARD GRAZIANO MAY, of Baltimore, Md.
WILLIAM FREDERICK MAYER, JR., of Baltimore, Md.
WILLIAM CHARLES McMULLIN, of Pittsburgh, Pa.
GEORGE HUMMEL MCNEELY, III, of Gladwyne, Pa.
FRED HENRY MEHLHOP, of Queens Village, N. Y.
FREDERICK LOUIS WILLIAM MOEHLE, JR., of Balto., Md.
LOUIS ALEXANDER MUCELLI, of Bronx, N. Y.

* Graduating with departmental honors.

JAMES WARREN OSWALD, Baltimore, Md.
* ROBERT EVERETT ALLEN PALMER, II, of Oakland, Calif.
* BERNARD JAY PARIS, of Baltimore, Md.
ROBERT ALAN PEDRICK, of Glassboro, N. J.
WILFRED MORRIS POTTER, of Washington, N. J.
JOHN LYLE PRATHER, of Washington, D. C.
WILLIAM PRIN, of Turtle Creek, Pa.
GORDON HENRY PURYEAR, JR., of Towson, Md.
* WILLIAM JOSEPH RAPPOPORT, of Baltimore, Md.
MARION VICTOR RHOADES, of Tulsa, Okla.
HENRY GLENN RICHARDS, of Sheboygan, Wis.
* CHARLES RICHARD ROSE, of Clayton, Mo.
ARTHUR SARNOFF, of New York, N. Y.
DAVID JOHN SAUNDERS, of San Rafael, Calif.
* MORTON SCHMUKLER, of Baltimore, Md.
BENJAMIN SEFF, of Baltimore, Md.
* CHARLES ROBERT SELIGER, of Baltimore, Md.
HARRY EDWIN SEMLER, JR., of Hagerstown, Md.
* LEROY SHEAR, of Baltimore, Md.
HENRY PETER SIEWERS, of Brooklyn, N. Y.
JOSEPH LEADER SOLEY, of New York, N. Y.
RICHARD DWIGHT SPOOR, of Meriden, Conn.
CHARLES LIONEL STARK, of Baltimore, Md.
* SHLOMO ZVI STERNBERG, of New York, N. Y.

* LLOYD HERBERT STRICKLAND, of Woonsocket, R. I.
ADAM FRANCIS PATRICK SZCZYPINSKI, of Baltimore, Md.
* DANIEL STANLEY TAMKUS, of Aberdeen, Md.
GEORGE WILLIAM TANTON, JR., of Baltimore, Md.
ALAN BOOKSTAVEN TAPLOW, of Brooklyn, N. Y.
* ROBERT LEE TAYLOR, of Baltimore, Md.
EDWARD FAIRCHILD TORSCH, of Baltimore, Md.
CHARLES DEE TOURTELLOTTE, of Haddonfield, N. J.
* CHARLES LEONARD WALDMAN, of Baltimore, Md.
ALBERT ZDANOWICZ WALEWSKI, of Geneva, Switzerland
ANDREW ZDANOWICZ WALEWSKI, of Geneva, Switzerland
THOMAS JAMES WEBER, of York, Pa.
JOHN NEWELL WELCH, of Baltimore, Md.
THOMAS GAETEN WILLIAMS, of Tampa, Fla.
JAMES FREDERICK WILLIAMSON, of Flushing, N. Y.
RAY AUSTIN WILSON, of Hellam, Pa.
* THEODORE RAYMOND WILSON, of Towson, Md.
GILBERT JAY WISE, of North Bergen, N. J.
ROBERT WILLIAM WROBLEWSKI, of South River, N. J.
* ADOLPH JOSEPH YATES, of Butler, Pa.
JACOB ZABARA, of Easton, Md.
EUGENE M. ZEMSKY, of Chicago, Ill.
WILLIAM ZERR, of Towson, Md.

(133)

GRADUATING WITH GENERAL HONORS

ROBERT LEHMAN BARTLETT
THOMAS HOWELL BULPITT
RONALD AUGUST CHEZ
LEONARD EDWIN COHEN
ALVIN DEUTSCH
ROLAND RAYMOND EPPLEY, JR.
JAMES FREEMAN ETHERIDGE, JR.
WHITMER BENNETT FIROR, JR.
WILLIAM NICHOLS FISHBEIN
CLYDE LAURENCE HARDIN
JOHN EDMOND HARVEY
LOWELL RESTELL KING
MARK RAYMOND LAZARUS
RUDOLPH KEMME LERNER
EPHRAIM YALE LEVIN
DON AUBREY MACCUBBIN

SIMEON MARGOLIS
BERNARD JAY PARIS
WILLIAM JOSEPH RAPPOPORT
CHARLES RICHARD ROSE
MORTON SCHMUKLER
BENJAMIN SEFF
CHARLES ROBERT SELIGER
LEROY SHEAR
SHLOMO ZVI STERNBERG
DANIEL STANLEY TAMKUS
ROBERT LEE TAYLOR
EDWARD FAIRCHILD TORSCH
CHARLES LEONARD WALDMAN
THEODORE RAYMOND WILSON
GILBERT JAY WISE
ADOLPH JOSEPH YATES

*Graduating with departmental honors.

BACHELORS OF ENGINEERING

- JOSEPH BAGROWSKI, of Baltimore, Md.
JACQUES DONALD BAMBLING, of Baltimore, Md.
DALE MONROE BARGER, of Baltimore, Md.
WILLARD CHARLES BASTIAN, Jr., of Stamford, Conn.
GEORGE THOMAS BATA, of Belcamp, Md.
HARVEY ALAN BAUER, of Baltimore, Md.
WINFIELD SCOTT BAYLESS, of Baltimore, Md.
CARL JOHN BECKER, Jr., of Baltimore, Md.
ANDREW JOSEPH BOZZELLI, Jr., of Philadelphia, Pa.
JAMES GILBERT BRINSFIELD, of Baltimore, Md.
DAVID JULIAN CLARK, of Chevy Chase, Md.
KENNETH HAMILTON DIGGS, of Baltimore, Md.
ARTHUR GORMAN DORSEY, Jr., of Baltimore, Md.
RICHARD EVERETT EDWARDS, of Baltimore, Md.
RICHARD JOHN FARRELL, of Baltimore, Md.
KENNETH JOHN FLETCHER, of Wood-Ridge, N. J.
LEONARD LEE FRANCE, of Baltimore, Md.
VERNON KEY GARRETT, Jr., of Baltimore, Md.
ROBERT RALPH GAUGH, of Baltimore, Md.
CHARLES HENRY GERWIG, Jr., of Baltimore, Md.
GERARD BROWN GILBERT, Jr., of New Cumberland, Pa.
DAVID GIPE, of Johnstown, Pa.
NICHOLAS HAGIS, of Baltimore, Md.
EDMUND GILL HART, of Baltimore, Md.
PHILIP McALPINE HASTINGS, Jr., of Baltimore, Md.
THOMAS LEROY HELLMAN, of Baltimore, Md.
WILLIAM BURTON HENRY, of Baltimore, Md.
ROBERT LEE HERRING, of Baltimore, Md.
BOWLING JOSEPH HOWARD, of Drexel Hill, Pa.
EDWARD DAVIDSON HOWELL, of New York, N. Y.
JOHN ARNOLD HUNTER, of Baltimore, Md.
CHARLES THOMAS KAHL, of Mt. Lake Park, Md.
JEROME JOSEPH KASPER, of Baltimore, Md.
PETER J. KAUFMANN, of New Rochelle, N. Y.
THOMAS DENTON KEGELMAN, of Baltimore, Md.
EDWARD RODGER KENNEDY, of Silver Spring, Md.
GERARD JOHN KIRCHNER, of Baltimore, Md.
LOUIS JOHN KUPFER, Jr., of Baltimore, Md.
ALBERT GEORGE LAVERTY, of Totowa Borough, N. J.
SAMUEL WALTER Lecompte, Jr., of Easton, Md.
ALBERT JOSEPH LESLIE, of Baltimore, Md.
BERNARD JOHN LINDENBERGER, of Baltimore, Md.
ROBERT FREDERICK LIPSCOMB, of Baltimore, Md.
WALTER PETER LIPSCOMB, of White Hall, Md.
GEORGE ROBERT LONCAR, of Baltimore, Md.
WILLIAM STUART MAGINNIS, Jr., of Baltimore, Md.
JOHN WALLACE MCCARLEY, Jr., of Glen Burnie, Md.
WILLIAM WOODS McDOWELL, Jr., of Kew Gardens, L. I., N. Y.
EDWARD OWEN McNICHOLAS, Jr., of Baltimore, Md.
MILTON PAUL MIECZNIKOSKI, of Baltimore, Md.
S. MURRAY MILLER, of Baltimore, Md.
SPENCER MOULD, of Tenafly, N. J.
THOMAS CAMPBELL MURRAY, of Baltimore, Md.
CHARLES LEE MYERS, of Baltimore, Md.
JOSEPH CHARLES NEMEC, of Baltimore, Md.
HOWARD WARREN OLER, of Baltimore, Md.
AUGUST RIDGELY PARK, of Baltimore, Md.
JOHN FULTON PATERSON, of Baltimore, Md.
LOUIS NELS PEDERSON, of Baltimore, Md.
JEROME CLEMENT PHELAN, Jr., of Baltimore, Md.
RICHARD CLARK POHL, of Baltimore, Md.
GEORGE POHLMAN, Jr., of Baltimore, Md.
PAUL LEROY POORE, of Upper Darby, Pa.
HOUSTON REED PUCKETT, of Baltimore, Md.
FREDERIC RAICHLEN, of Baltimore, Md.
SIDNEY RANKIN, of Baltimore, Md.
WILLIAM EUGENE REDMAN, of Chestertown, Md.
FRANK GORDON RILEY, of Spring Gap, Md.
JOHN CHARLES RODOWSKY, of Baltimore, Md.
RICHARD CARROLL ROTH, of Baltimore, Md.
HARVEY SILBERMANN, of Baltimore, Md.
JOSEPH FRANCIS SKRIVAN, of Baltimore, Md.
ANTHONY MACTIER SMITH, of Baltimore, Md.
EDWARD WALTER SOMERS, of Baltimore, Md.
ROBERT ANTHONY SPEDDEN, of Washington, D. C.
WILLIAM ROBERT SPEDDEN, of Baltimore, Md.
GERALD STANLEY STRAUSS, of Baltimore, Md.
JOSEPH FISHER STROHECKER, of Baltimore, Md.
GERALD MARVIN THOMPSON, of Baltimore, Md.
JAMES EDWIN THOMPSON, of Annapolis, Md.
WILLIAM FREDERICK VREDENBURG, of Manhasset, N. Y.
DONALD GRAY WARNER, of Baltimore, Md.
WILLIAM RICHARD WILLS, of Baltimore, Md.
FRANCIS JOHN WITT, of Baltimore, Md.
EDWARD JOSEPH WSZOLEK, of Springfield, Mass.
DONALD WOODALL YATES, of Baltimore, Md.
EDGAR WESLEY YOUNG, of Baltimore, Md.
RICHARD WAYNE YOUNG, of Westminster, Md.

(88)

GRADUATING WITH HONOR

- | | |
|------------------------------|----------------------|
| WILLARD CHARLES BASTIAN, JR. | GEORGE ROBERT LONCAR |
| LEONARD LEE FRANCE | JOHN FULTON PATERSON |
| GERALD BROWN GILBERT, JR. | FREDERIC RAICHLEN |
| GERARD JOHN KIRCHNER | SIDNEY RANKIN |
| ALBERT GEORGE LAVERTY | EDWARD WALTER SOMERS |

FRANCIS JOHN WITT

BACHELORS OF SCIENCE IN CHEMICAL ENGINEERING

JOHN WILLIAM HUEBSCHMANN, of Baltimore, Md.
ALAN AUBREY MARRINER, of Baltimore, Md.

VERNON BYRON MORRIS, JR., of Baltimore, Md.
EDWARD JAMES PRIBYL, of Baltimore, Md.

(4)

BACHELORS OF SCIENCE IN CIVIL ENGINEERING

IGNATIUS JOHN GREEZICKI, of Baltimore, Md.
THOMAS CARBERY JONES, of Baltimore, Md.
FRANCIS WALTER KUCHTA, of Baltimore, Md.

EDGAR FRANKLIN MULLER, JR., of Baltimore, Md.
WILSON FRANKLIN OUTEN, of Baltimore, Md.
JAMES HAMILTON OWENS, JR., of Towson, Md.

(6)

BACHELORS OF SCIENCE IN ELECTRICAL ENGINEERING

WILLIAM JOHN HAACKE, JR., of Baltimore, Md.
RICHARD HAGOP HAGOPIAN, of Highland Park, Mich.
JOSEPH JOHN HEINDL, JR., of Baltimore, Md.

HARRY EVERETT KOERNER, of Baltimore, Md.
CHARLES MARTIN MACHIN, JR., of Baltimore, Md.
HERBERT LESLIE MORIN, of Baltimore, Md.

(6)

GRADUATING WITH HONOR

CHARLES MARTIN MACHIN, JR.

BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING

JACK ALLEN FREISTAT, of Baltimore, Md.

(1)

BACHELORS OF SCIENCE IN MECHANICAL ENGINEERING

PERRY LEIGHTON HARRIS, of Baltimore, Md.
ERNEST MORITZ, of Baltimore, Md.
JOHN PERRY REESE, of Baltimore, Md.

JOSEPH ADALBERT SZYMKOWIAK, of Towson, Md.
CHARLES BURTON WHITE, JR., of Baltimore, Md.
ROBERT LEONARD WINKLER, of Baltimore, Md.

(6)

MASTERS OF SCIENCE IN ENGINEERING

WITH TITLES OF ESSAYS

HENRY PECK AMES, JR., of Arlington, Va., B. S. in C. E. Virginia Military Institute, 1951. Sanitary Engineering.
A Study of the Effects of Temperature on the Coagulation of Bentonite Sols.

LEONARD ARNOWITZ, of Paterson, N. J., B. S. E. E. Newark College of Engineering, 1947. Electrical Engineering.
Axes Conversion by Electro-Mechanical Means.

ADOLPH BIALECKI, of Linthicum Heights, Md., B. S. Yale University, 1937. Chemical Engineering.
Permeability to Water of Thin Unsupported Films of Pure Drying Oils.

JOHN REVELL BOONE, of Baltimore, Md., B. E. The Johns Hopkins University, 1943. Chemical Engineering.
A Study of the Dielectric Properties of Plasticizers.

WILLIAM HALL BRINCKERHOFF, of Washington, D. C., A. B. Princeton University, 1951. Chemical Engineering.
The Corrosion of Mild Steel by Sulphuric Acid under Static and Dynamic Conditions.

JOSEPH SHERMAN BUSCH, of New York, N. Y., B. S. Northwestern University, 1946. Chemical Engineering.
A Study of the Specific Heats of Aqueous Solutions of Cesium Iodide.

- ROBERT SIMON BUXBAUM, of Baltimore, Md., B. E. The Johns Hopkins University, 1951. Mechanical Engineering.
Elastic Constants of Orthotropic Plates.
- MARTIN CHARLES CHAITT, of Elmira, N. Y., B. Ch. E. Syracuse University, 1950. Chemical Engineering.
Reaction Kinetics in a Tubular Reactor.
- Abram Miko Fayon, of Rahway, N. J., Dipl. Engr. University of Istanbul, 1948. Chemical Engineering.
Heat Transfer Coefficients of Ethylene Glycol- Water Mixtures.
- LOUIS JOSEPH FRISCO, of Patchogue, N. Y., B. E. The Johns Hopkins University, 1949. Electrical Engineering.
A Breakdown Cell for Measuring the Dielectric Strength of Solids at 100-Megacycles.
- AVNER GOOR, of Haifa, Israel, A. M. I. E. T. British Institute of Engineering Technology, London, 1945. Sanitary Engineering.
Effect of Baffles on Flow through a Septic Tank.
- MURRAY KABINOFF, of Brooklyn, N. Y., B. E. Pratt Institute, 1948. Chemical Engineering.
Liquid-Liquid Extraction Using a Centrifugal Extraction Column.
- JOSEPH FRANCIS LAGNESE, of Pittsburgh, Pa., B. S. in C. E. University of Pittsburgh, 1951. Sanitary Engineering.
The Ion Exchange Method of Removing Sr^{90} from Laundry Wastes.
- WILLIAM BRACKETT LAUDER, of Essex, Md., B. S. Massachusetts Institute of Technology, 1935; B. E. Polytechnic Institute of Brooklyn, 1950. Chemical Engineering.
Manufacture of Ammonium Sulfate from Sodium Sulfate.
- JOSEPH JACOB MARCUS, of Baltimore, Md., B. S. in Ch. E. University of Washington, 1942. Chemical Engineering.
A Study of Fluidization.
- FLOYD WILSON MCCOLLUM, of Baltimore, Md., B. S. in Ch. E. Georgia Institute of Technology, 1945. Chemical Engineering.
Agitation of Immiscible Liquids.
- HENRY STANTON McDONALD, of Washington, D. C., B. E. E. Catholic University, 1950. Electrical Engineering.
The Analysis of Noise in Radio Receivers.
- RICHARD SHAPPELL MULLER, of Baltimore, Md., B. E. The Johns Hopkins University, 1943. Mechanical Engineering.
An Analysis of By-Product Power, Process Steam-Producing Cycles.
- JOHN DUDLEY NICOLAIDES, of Aberdeen, Md., B. A. Lehigh University, 1946. Aeronautics.
On the Free Flight Motion of Missiles Having Slight Configurational Asymmetries.
- MANDAYAM A. SAMPATHKUMARAN, of Calcutta, India, B. S. University of Mysore, 1939; M. S., 1940. Sanitary Engineering.
The Effect of Organic Loading upon Diurnal Changes in the Dissolved Oxygen Cycle.
- NIKHILESWAR SANYAL, of Jabalpur, India, A. M. I. C. E. Institution of Civil Engineers, London, 1948. Sanitary Engineering.
A Preventive Method of Algae Control in Water Treatment Plants.
- ARISTOTELES GEORGIUS MICHAEL SCOLEDES, of Mt. Vernon, N. Y., A. B. Utica College of Syracuse University, 1951. Aeronautics.
Some Aspects of the Physics of Rocket Flight.
- FRANK SHANTY, of Baltimore, Md., B. E. The Johns Hopkins University, 1943. Chemical Engineering.
Heat Transfer to Air in Turbulent Flow through a Small Diameter Tube.
- DONALD MARTIN SLAGER, of Great Falls, Mont., B. S. Illinois Institute of Technology, 1945; M. A. University of California, Los Angeles, 1947. Electrical Engineering.
Measurements of High Q at Millimeter Wavelengths.
- WILLIAM GALLAHAN SOPER, of Clinton, Md., B. E. The Johns Hopkins University, 1952. Mechanical Engineering.
Response to Pulse Loading of Non-Linear Systems of One Degree of Freedom.
- EUGENE CARROL SPRATT, of Higginson, Ark., B. S. in C. E. University of Arkansas, 1950. Sanitary Engineering.
Removal of Sr^{90} Contamination from Cotton Cloth by Laundering.
- DHARMAVADANI VISWANATHAN SUBRAHMANYAM, of Poona, India, B. Sc. University of Bombay, 1946; B. E., 1950. Sanitary Engineering.
Removal of I^{131} from Water by Treatment with Metallic Dusts.
- DOUGLAS CARTER VEST, of Aberdeen, Md., Ch. E. University of Cincinnati, 1942. Chemical Engineering.
On the Transfer of Heat in High-Pressure Combustion Chambers.
- ERIC WEGER, of Baltimore, Md., B. E. The Johns Hopkins University, 1951. Chemical Engineering.
Dielectric Studies in Fractionated Polyisobutylenes.

DOCTORS OF ENGINEERING

WITH TITLES OF DISSERTATIONS

VAUGHN CRAWFORD BEHN, of Keansburg, N. J., B. S. Rutgers University, 1943; M. S. Harvard University, 1947. Sanitary Engineering.

The Sludge Thickening Operation in Sewage Treatment.

EARNEST FREDERICK GLOYNA, of Austin, Tex., B. S. C. E. Texas Technological College, 1946; M. S. C. E. University of Texas, 1949. Sanitary Engineering.

Radioactive Contaminated Laundry Waste and Its Treatment.

DONALD RICHARD HAGNER, of Baltimore, Md., B. E. The Johns Hopkins University, 1949. Electrical Engineering.

Multiple Contact Resistance.

CHARLES JOSEPH QUIGLEY, of Baltimore, Md., B. S. Boston College, 1937; M. S. E. The Johns Hopkins University, 1952. Chemical Engineering.

A Study of Mass Transfer between Gas Bubbles and Liquids.

DONALD STANLEY ROBBELL, of Baltimore, Md., B. E. The Johns Hopkins University, 1949. Electrical Engineering.

Positive D-C Corona on Polyethylene Insulated Wire in Air.

CHIAO-JEN WANG, of Shanghai, China, B. S. Chiao-Tung University, 1942; M. S. M. E. Massachusetts Institute of Technology, 1946. Mechanical Engineering.

The Conformal Mapping From a Circle to a Cascade.

(6)

BACHELORS OF SCIENCE IN BUSINESS

ROBERT TALBOT ADAMS, of Holliston, Mass.

ROBERT PETER AMERIO, of Wood-Ridge, N. J.

WAYNE MARVIN BAILLIE, of Baton Rouge, La.

DAVID DON BRODIE, of Baltimore, Md.

LEE RAYMOND BROERSMA, of Baltimore, Md.

DOUGLAS MONTEATH DAYTON, of Rockville Centre, N. Y.

OTIS BELMONT DEVILBISS, JR., of Union Bridge, Md.

STANLEY HOWELL DORNEY, JR., of Baltimore, Md.

WILLIAM MELZAR DUNBAR, of Baltimore, Md.

ROBERT McCORMICK FORESMAN, of Baltimore, Md.

HENRY CLAY GETZ, of Baltimore, Md.

PETER SALVATORE GIOE, of Brooklyn, N. Y.

JAMES CARROLL GODEY, of Baltimore, Md.

ROBERT HARRY GOLDMAN, of Baltimore, Md.

GEORGE WALTER GREENEBAUM, of Baltimore, Md.

RAYMOND MAX GUETHLER, JR., of Baltimore, Md.

WILLIAM SAMUEL HELLER, of Pikesville, Md.

JOHN DAVID HENDERSON, of Baltimore, Md.

CHARLES ELLICOTT HOFFMAN, JR., of Baltimore, Md.

EDWARD BRADFORD JOHNS, III, of Baldwin, N. Y.

ALBERT CUMMING KAESTNER, JR., of Baltimore, Md.

WALTER CHARLES KANWISHER, JR., of Baltimore, Md.

JEROME TELFAIR KELLEY, JR., of Atlanta, Ga.

PHILIP DORSEY KIRBY, of Baltimore, Md.

ROBERT CHARLES LARI, of Baltimore, Md.

GEORGE AITCHISON LEAVENWORTH, of Waterbury, Conn.

DAVID RAY LUNDELL, of Baltimore, Md.

LAWRENCE HEFFNER PARKS, of Baltimore, Md.

CORNELIUS SEABROOK ROMEDY, JR., of Baltimore, Md.

MURRAY HOWARD ROTH AUS, of Baltimore, Md.

ROBERT LOUIS SCHAPIRO, of Brooklyn, N. Y.

CHARLES HOMER SCHNEPPE, of Baltimore, Md.

WILLIAM DWIGHT SIEBERT, of West Copake, N. Y.

ALLAN LEE SPENCER, of Ruxton, Md.

WILLIAM EDWARD THOMPSON, III, of Baltimore, Md.

KENNETH CARLETON TOWNSEND, of Towson, Md.

GLENN ANTHONY WAYNE, of Nutley, N. J.

LEROY ALBERT WILBUR, JR., of Gibson Island, Md.

CHARLES ERNEST WILLIAMSON, JR., of Darien, Conn.

(39)

GRADUATING WITH HONOR

CHARLES ELLICOTT HOFFMAN, JR.

MURRAY HOWARD ROTH AUS

BACHELORS OF SCIENCE

BADDY SABA AJALAT, of Newport News, Va.	BEATRICE FRYE LAING, of Baltimore, Md.
ANTOINETTE M. ANTETOMASO, of Baltimore, Md.	HILDA COMBS LANDERS, of Baltimore, Md.
WILLIAM SHANNON ARNOLD, JR., of Baltimore, Md.	MADelyn LANGENFELDER, of Baltimore, Md.
JOSEPHINE LENOLA BAILEY, of Indianapolis, Ind.	THELMA COLES SHIELDS LAPPÉ, of Baltimore, Md.
BENJAMIN BAK, of Baltimore, Md.	VIRGINIA BROWN LESTER, of Stanley, Va.
LAVERDA ARLINE BERG, of Norcatur, Kans.	KELVIN DONALD MACHEMER, of Baltimore, Md.
ANNA RUTH BOLTON, of Baltimore, Md.	MICHAEL CHARLES MARAS, of Baltimore, Md.
WILLIAM BENTHALL BRISTOR, of Baltimore, Md.	MARGARET S. CRAWFORD MCKINNON, of Davis, W. Va.
HAROLD HORN BRYANT, of Brooklandville, Md.	DAVID EUGENE McLAUGHLIN, of Randallstown, Md.
NICHOLAS CHARLES BURKE, III, of New Brunswick, N. J.	JUNE ELLEN HUNT MENDELSON, of Baltimore, Md.
ELMER WESLEY BYRON, of Baltimore, Md.	WILLIAM ERNEST MENGEL, of Baltimore, Md.
CATHERINE NELSON CAREY, of Baltimore, Md.	WILSON NORFLEET, of Baltimore, Md.
FRANCES CHAIKIN, of Baltimore, Md.	JAN ANTHONY OBST, of Baltimore, Md.
PHYLLIS CONNOR, of Baltimore, Md.	DAVID CHEETHAM PALMER, of Chevy Chase, Md.
CHARLES EDWARD CONNOR, of Baltimore, Md.	WILFORD NOEL PAUL, of Baltimore, Md.
HELEN PAULINE COPE, of Lexington, N. C.	FORBES WHITNEY POLLIARD, of Owings Mills, Md.
OCTAVIUS McRAE COVINGTON, of Baltimore, Md.	M. LOUISE EWING REDCAY, of Reisterstown, Md.
JANE CARLON COX, of Baltimore, Md.	ELEANOR FLORENCE BLACK REQUARD, of Towson, Md.
BETTY LIGGETT CUTHBERT, of Baltimore, Md.	ANNA ELIZABETH ROBINSON, of Aberdeen, Md.
RUTH WEBSTER DAVIS, of Baltimore, Md.	ELIZABETH D. ROTHMAN, of Baltimore, Md.
WILLETT EDWARD DERBY, JR., of Baltimore, Md.	ETHEL CECELIA RUPPERT, of Baltimore, Md.
GEORGE JAMES DIDUSCH, of Baltimore, Md.	STEWART SAMUEL SHECKELLS, of Baltimore, Md.
PHYLLIS RUBIN EHRLICH, of Baltimore, Md.	HELEN ELIZABETH SHERWOOD, of Baltimore, Md.
DONALD LEE EIRICH, of Baltimore, Md.	CHING-YUNG SHIN, of Hong Kong, China
DOROTHY QUENNELL FLEXNER, of Yonkers, N. Y.	MENDEL M. SILVER, of Baltimore, Md.
MARGARET CLARA FREIBERGER, of Baltimore, Md.	CHARLES FRANCIS SPARENBERG, of Glen Burnie, Md.
LAURIE JACK GILLESPIE, of Baltimore, Md.	LILLIAN ELIZABETH SPRINGMANN, of Baltimore, Md.
HELEN E. REID GORDON, of Hagerstown, Md.	FLORA MAY STREETT STEIN, of Abingdon, Md.
HARALD ALVIN HANSEN, of New York, N. Y.	ETHEL MAE STINCHCOMB, of Baltimore, Md.
ROBERT DIXON HOPKINS HARVEY, of Baltimore, Md.	HELEN ELIZABETH TARBERT, of Baltimore, Md.
ESTHER JANET HOFFMAN, of Baltimore, Md.	OSCAR EMILE VINJE, of Baltimore, Md.
MARY MAGDELENE HOPPERT, of Baltimore, Md.	LUCY BILSON WEISE, of Baltimore, Md.
WILLIAM LEE HUBER, of Baltimore, Md.	WILMER HAYDEN WELSH, of Baltimore, Md.
EDGAR SMITH JACOB, of Baltimore, Md.	WILLIAM HERR WHITMARSH, of Baltimore, Md.
ANNA PROUT JONES, of Lothian, Md.	LAURA ELLEN LINTHICUM WILDMAN, of Baltimore, Md.
MARGUERITE ADAMS KEYS, of Baltimore, Md.	LOUISE WILLIER, of Baltimore, Md.
MARTHA RESH KNIGHT, of Baltimore, Md.	JOHN STERLING YOUNG, of Baltimore, Md.
CHARLES LINWOOD KOHLHEPP, of Baltimore, Md.	

(75)

GRADUATING WITH HONOR

ANNA RUTH BOLTON
DONALD LEE EIRICH
EDGAR SMITH JACOB

CHARLES LINWOOD KOHLHEPP
M. LOUISE EWING REDCAY

BACHELORS OF SCIENCE IN NURSING

BERTHA NELL ADAIR, of Lubbock, Tex.
VIRGINIA LOUISE AGRELLA, of Baltimore, Md.
ALOHA MAE ALBRIGHT, of Ravenna, Mich.
CAROLYN ANNE BANGHART, of Lock Haven, Pa.
JANE BENNETT BUETTNER, of Baltimore, Md.
HELEN SCHULZE BURCH, of Chicago, Ill.
SHIRLEY WILLOUGHBY CANHAM, of Colquitt, Ga.
MARY ANN CARR, of Plainfield, N. J.
CAROLYN LOUISE CATE, of Chattanooga, Tenn.
LILLIAN WEI-LIN CHANG, of Shanghai, China
FLORENCE CLAIRE CRISTY, of Forty Fort, Pa.
ELIZABETH JANE CLARK, of Syracuse, N. Y.
MAUREEN MARIE CRAWFORD, of Washington, D. C.
JUDITH VARIAN DALY, of Berkeley, Calif.
DORIS JEANNE EITZMAN, of Cedar Falls, Iowa
HELEN ELIZABETH FARRINGTON, of Providence, R. I.
JO ANN FRANKLIN, of St. Petersburg, Fla.
MARY ROSALIE GANS, of Baltimore, Md.
GENE GARRICK, of Thomasville, Ala.
MABEL LUCILLE GERHART, of Jonestown, Pa.
ROSALYN GHYSELS, of Washington, D. C.
CATHERINE M. GONTERO, of Mays Landing, N. J.
JANE HAGGART, of Cincinnati, Ohio
JOAN HARDWICK, of Wampee, S. C.
MARINELL HARGROVE, of Whitfield, Miss.

SARAH RUTH HERING, of Sykesville, Md.
RUTH MARIE ITEN, of New York, N. Y.
KATHRYN PRICHARD KLUCKHOHN, of Ravenna, Ohio
JOAN ELISE KUEHN, of Baltimore, Md.
ADELENE LOUISE LAUB, of Fremont, Ohio
PEGGIE-LOUISE LEE, of New Rochelle, N. Y.
BARBARA ANN BAUMAN LIVERIGHT, of Portland, Oreg.
JOAN CLINE LIVINGSTON, of Rochester, N. Y.
LAUREL GENE LONG, of Chattanooga, Tenn.
PATRICIA D. CONROY MATTISON, of Baltimore, Md.
JEANNE MARIAN MOYER, of Fremont, Nebr.
DORIS LOCKETT PERKINSON, of Glen Allen, Va.
ZOE ANNE VERLE SAMUELSON, of Genoa, Nebr.
DOROTHY ARLENE SHAFFER, of Baltimore, Md.
FRANCES INEZ SIGLER, of Coushatta, La.
HELEN SINS, of West Leyden, N. Y.
JOYCE SQUILLANTE, of Baltimore, Md.
LUENELLE ERLINDA TREVATHAN, of El Dorado, Ark.
ELVA ANN KIIYO UYENO, of Honolulu, Territory of Hawaii
TERESINA M. BIFANO WALTON, of Johnstown, Pa.
HELEN ESTHER WHISSEN, of Washington, D. C.
JANE LEE WILLIAMS, of Washington, D. C.
JOAN LOUISE WILLIAMS, of Washington, D. C.
ANNE ELIZABETH WRIGHT, of Indian Head, Md.

(49)

GRADUATING WITH HONOR

DORIS LOCKETT PERKINSON

MASTERS OF EDUCATION

EDWARD LEE BILLER, JR., of Baltimore, Md., B. S. State Teachers College, Towson, Md., 1949.	WILLIAM JORDAN KINLING, of Baltimore, Md., A. B. The Johns Hopkins University, 1950.
JEROME BOBER, of Baltimore, Md., B. S. The Johns Hopkins University, 1950.	WILLIAMS WATERS KIRK, of Baltimore, Md., A. B. The Johns Hopkins University, 1949.
ALICE ELIZA BUCK, of Baltimore, Md., B. S. Longwood College, 1946.	MARY NORMA MATTINGLY KUEHNLE, of Baltimore, Md., B. S. State Teachers College, Towson, Md., 1948.
RUTH COLEMAN CAMPBELL, of Baltimore, Md., Ph. B. Dickinson College, 1943.	JEANNETTE HANCOCK LEWIS, of Baltimore, Md., B. S. The Johns Hopkins University, 1950.
SYLVIA EILEEN FREIMAN, of Baltimore, Md., B. S. The Johns Hopkins University, 1950.	RICHARD KENNETH MCKAY, of Baltimore, Md., A. B. The Johns Hopkins University, 1943.
VIRGINIA DODSON GLEISNER, of Baltimore, Md., A. B. Goucher College, 1926.	HELEN ELIZABETH MILLER, of Marion, Pa., B. S. Shippensburg State Teachers College, 1936.
JESSIE OWINGS HOLLENBERRY, of Baltimore, Md., B. S. The Johns Hopkins University, 1950.	MARTIN HENRY RAILA, of Baltimore, Md., B. E. The Johns Hopkins University, 1943.
JOHN HORST, JR., of Baltimore, Md., B. S. State Teachers College, Towson, Md., 1942.	LENA TYLER REILLY, of Baltimore, Md., B. S. University of Florida, 1941.
NATHAN NEUBERT JAFFA, of Baltimore, Md., B. S. University of Maryland, 1949.	CHARLES WILLIAM REINHARDT, II, of Baltimore, Md., A. B. The Johns Hopkins University, 1949.

MARY ELEANOR RICE, of Catonsville, Md., A. B. Goucher College, 1936.

IDELLE FRICKER RIEFLE, of Baltimore, Md., A. B. Goucher College, 1928.

MARY LOUISE ROBB, of Baltimore, Md., B. S. Loyola College, 1948.

VIRGINIA VOIGT ROEDER, of Baltimore, Md., B. S. Oklahoma College for Women, 1946.

PETER FREDERICK ROTHERMEL, of Newport, R. I., A. B. Princeton University, 1942.

HERBERT JEROME STERN, of Baltimore, Md., B. S. The Johns Hopkins University, 1950.

DONALD THEOS ZIMMERMAN, of Baltimore, Md., A. B. Gettysburg College, 1948.

(25)

MASTERS OF SCIENCE IN HYGIENE

WITH TITLES OF THESES

EDWARD CHARLES ACKERMAN, of Buffalo, N. Y., B. A. Buffalo University, 1950. Public Health Administration. Methodology of the Medical Audit.

MORTON NATHANIEL CHALEF, of Alexandria, Va., B. A. New York University (Washington Square), 1947. Public Health Administration.

MARIE MATHILDA DELANEY, of Baltimore, Md., B. A. College of Notre Dame of Maryland, 1948. Biostatistics.

Certain Effects of Temporary Losses on Cumulative Failure Rates in Long-Time Follow-Up Studies.

ROBERT JOHN KEEHN, of Catskill, N. Y., B. S. Hartwick College, 1947. Biostatistics.

A Study of the Effect of Immigration upon Mortality in a Geographically Defined Population.

VICTOR EARLE NICKLAS, of Cooperstown, N. Y., A. B. Amherst College, 1939. Public Health Administration.

The Mary Imogene Bassett Hospital's Medical Service Area.

HERBERT JOSEPH RAPP, of Baltimore, Md., A. B. The Johns Hopkins University, 1948. Microbiology.

Purification of the Heat-Stable, Alcohol Soluble Hemolytic Antibody Inhibitor of the Sheep Erythrocyte.

MURRAY JORDAN SELDEEN, of Baltimore, Md., A. B. The Johns Hopkins University, 1949. Microbiology.

The Immobilization of *Treponema pallidum* by Antibody and Complement. A Study of Certain Factors Influencing the Measurement of Immobilizing Antibody.

(7)

DOCTORS OF SCIENCE IN HYGIENE

WITH TITLES OF DISSERTATIONS

ROBERT MAURICE CHUTE, of Stillwater, Maine, B. A. University of Maine, 1950. Parasitology.

Studies on Immunity of *Trichinella spiralis*.

ROBERT LEO DAVIS, of Baltimore, Md., B. A. University of Alabama, 1938. Biochemistry.

Biochemical Studies of Synthesis and Uptake of Vitamin B₁₂ by Rat and Bacteria.

MORRIS GOLDMAN, U. S. Public Health Service, B. A. Brooklyn College, 1939; M. S., Columbia University School of Public Health, 1949. Parasitology.

Cytochemical Differentiation of *Endamoeba histolytica* and *Endamoeba coli* by Means of Fluorescent Antibody.

ROBERT LEE INGRAM, of Baltimore, Md., A. B. George Washington University, 1948; B. S., 1949. Parasitology.

A Study of Bionomics of *Aedes (Stegomyia) Polynesiensis* Marks under Laboratory Conditions.

LEO ALBERT JACHOWSKI, JR., of Baltimore, Md., B. S. University of Michigan, 1941; M. S., 1942. Parasitology.

Studies on the Factors Influencing the Epidemiology of Filariasis in American Samoa.

HAROLD LLOYD KERN, of Buffalo, N. Y., B. S. University of Michigan, 1942. Biochemistry.

The Reduction of Disulfide Linkages in Pepsin and Pepsinogen.

PAUL JAMES LA BENZ, of Baltimore, Md., B. S. Northwestern University, 1949. Environmental Medicine.

The Discrimination of Filtered Speech by Normal and Hearing Impaired Persons.

LAWRENCE LEVINE, of Hartford, Conn., B. A. University of Connecticut, 1948; M. S. University of Michigan, 1950. Microbiology.

Studies on the Role of Calcium and Magnesium Salts in Complement Fixation and Immune Hemolysis.

JOHN FREDERICK REBACK, of South Bend, Ind., B. S. University of Notre Dame, 1940; M.S., 1942. Microbiology.
On the Utilization of Sulfur by *Thiobacillus Thiooxidans*.

IRVING HAROLD SHER, of New York, N. Y., B. A. University of Pennsylvania, 1944. Biochemistry.
Studies on the Lysine and Arginine Decarboxylases of *E. coli B*.

MATHEW TABACK, of Baltimore, Md., A. B. Harvard University, 1939; A. M. Columbia University, 1940. Biochemistry.
Family Studies in the Eastern Health District. Family Structure and Its Changing Pattern.

ROBERT CHARLES WALLIS, of West Burlington, Iowa, B. S. University of Ohio, 1948; M. S., 1950. Parasitology.
A Study of Oviposition Activity of Mosquitoes.

MORTON M. WEBER, of New York, N. Y., B. S. College of the City of New York, 1949. Microbiology.
Factors Influencing the *in vitro* Survival of the Virulent Nichols Strain of *Treponema pallidum*.

CALVIN ZIPPIN, of Albany, N. Y., A. B. New York State College for Teachers, 1947. Biostatistics.
An Evaluation of the Removal Method of Estimating Animal Populations.

(14)

MASTERS OF PUBLIC HEALTH

JEAN CROWLEY ANTONMATTEI, of St. Louis, Mo., B. S. Webster College of St. Louis University, 1939; M. D. Marquette University, 1944.

MOHAMMAD ANWAR, of Kabul, Afghanistan, M. D. Medical Faculty of Kabul, 1943.

ROLANDO ARMIJO-ROJAS, of San Felipe, Chile, M. D. University of Chile, 1946.

FERDINAND C. BARNUM, U. S. Air Force, M. D. Temple University, 1946.

ULPIANO BLANCO, of Godoy Cruz, Argentina, M. D. National University of the Littoral, 1941.

CAROLYN VERONICA BRIGNOLA, of Troy, N. Y., A. B. Cornell University, 1940; M. D. Albany Medical College, 1944.

ANA CASALS-SCOTT, of Ponce, Puerto Rico, A. B. Polytechnic Institute; M. D. Woman's Medical College of Pennsylvania, 1949.

ROBERT FOLSOM CAVITT, U. S. Air Force, A. B. Wichita University, 1947; M. D. Kansas University, 1948.

CHIH K'ANG CHANG, of Taipeh, Taiwan, M. D. Cheeloo University, 1940.

CLAIRE ALTHEA CHRISTMAN, of Adelphi, Md., B. S. Washington Missionary College, 1938; M. D. College of Medical Evangelists, 1939.

DOROTHY EVELYN COLLARD, of Lewiston, Idaho, R. N. St. Luke's Hospital, 1932; B. S. University of Minnesota, 1949.

JOSEPH MICHAEL COPPOLETTA, Bureau of Naval Personnel, Washington, D. C., A. B. Cornell University, 1924; M. D. Harvard University, 1931.

DANIEL J. DALEY, U. S. Public Health Service, B. S. Villanova College, 1932; M. D. Georgetown University, 1937.

MELVIN ROGER DAVIS, U. S. Public Health Service, B. S. University of Washington, 1946; M. D. University of Oregon, 1949.

CHEK DHANASIRI, of Bangkok, Thailand, M. B. Siriraj Medical School Thailand, 1950; M. P. H. School of Public Health Thailand, 1951.

DONALD GEORGE DICKSON, of Kingston, N. Y., A. B. University of Nebraska, 1942; M. D. 1945.

LÊ DU, of Saigon, Vietnam, Diploma, School of Medicine, University of Saigon, 1945.

WARNAPURAGE LEELARATNA FERNANDO, of Colombo, Ceylon, M. B. B. S. Faculty of Medicine, University of Ceylon, 1944.

GORDON F. FISHER, U. S. Air Force, M. D. Northwestern University, 1934; M. B. 1934.

JOSE LIMA PEDREIRA DE FREITAS, of São Paulo, Brazil, M. D. University of São Paulo, 1941.

HATAO FUNAKAWA, of Tokyo, Japan, M. D. Hokkaido University, 1940; D. Med. Sc. 1945.

CHARLES JORDEN GILLOOLY, U. S. Public Health Service, B. S. University of Illinois, 1940; D. D. S. 1942.

EDWARD F. GLIWA, of New Castle, Del., B. S. Ursinus College, 1943; M. D. Jefferson Medical College, 1946.

JACK JAY GOLDMAN, of Buffalo, N. Y., A. B. University of Vermont, 1943; M. D. 1950.

HERMELINO HERBSTER GUSMAO, of São Paulo, Brazil, M. D. University of São Paulo, 1944.

ROSE KAM ING HEE, of Honolulu, Territory of Hawaii, B. S. Western Reserve University, 1948.

ERIN JULIETTE YSBRANTZ DRIEBERG JONKLAAS, of Colombo, Ceylon, M. B. University College, 1939; M. B. B. S. University of Ceylon, 1944.

- KATHERINE MARGARET JUSTUS, of Little Rock, Ark., B. S. George Peabody College, 1943; R. N. St. Vincent's Hospital School of Nursing, 1934.
- GUILLERMO KAELEN, of Lima, Peru, M. D. University of San Marcos, 1939.
- MAURICE KAMP, U. S. Public Health Service, B. S. Rutgers University, 1928; M. D. Medical College of Virginia, 1932.
- ELSA KATZ, of Montevideo, Uruguay, M. D. University of the Republic of Uruguay, 1951.
- THOMAS EDMUND KINNANE, JR., of Irvington-on-Hudson, N. Y., R. N. Westchester School of Nursing, 1940; B. S. New York University, 1947.
- REISAKU KONO, of Tokyo, Japan, M. D. Tokyo University, 1940.
- EDWARD KROHN, of Bergen, Norway, M. D. University of Oslo, 1941.
- AKIRA KUSUKAWA, of Fukuoka, Japan, B. Sc. Yamaguchi College, 1944; M. D. Kyushu University, 1948.
- LOLA MARGUERITE LAFFAY, of Hastings-on-Hudson, N. Y., B. A. New Jersey College for Women, 1936; R. N. Yale University School of Nursing, 1944.
- GERD W. LAGARIE, of Dusseldorf, Germany, M. D. Wurzburg Pathological Institute, 1945.
- CHONG CHIN LEE, of Pusan, Korea, M. D. Seoul University, 1944.
- LUCIO PENNA DE CARVALHO LIMA, of São Paulo, Brazil, M. D. University of São Paulo, 1943.
- ROBERTO PEDRO LOPEZ LANZI, of Tucuman, Argentina, M. D. National University of the Littoral, 1940.
- STANLEY LUTZ, JR., U. S. Air Force, B. S. Mount Union College, 1941; M. D. St. Louis University, 1946.
- JOSE RICARDO MARTINEZ, of San Salvador, El Salvador, M. D. National University of El Salvador, 1933.
- MAUNG BA MAUNG, of Taunggyi, Burma, M. B. B. S. University of Rangoon, 1951.
- GENTRY WARD MOFFITT, of McMinnville, Tenn., B. S. Middle Tennessee State College, 1935; M. A. George Peabody College, 1940.
- BENJAMIN LUCAS MORAN, of Buenos Aires, Argentina, D. V. M. Faculty of Agronomy and Veterinary Science, National University of Buenos Aires, 1937.
- PAUL WILLIAM MUSGRAVE, U. S. Air Force, M. D. University of Iowa, 1948.
- SAMUEL EUGENE NEELY, U. S. Air Force, M. D. University of Oklahoma, 1948.
- SYLVIA PLAZA-MESA, of Santiago, Chile, M. D. University of Chile, 1946.
- ANN ELIZABETH POORMAN, of Indianapolis, Ind., R. N. Indiana University, 1942; A. B. 1942.
- JACK RODNEY RABENBURG, U. S. Air Force, M. D. Duke University, 1949.
- MAGADI SHAMA RAO, of Bangalore, India, B. Sc. Central College, Bangalore, 1934; M. B. B. S. Medical College, Mysore, 1940; D. P. H. All India Institute of Hygiene and Public Health, Calcutta, 1947.
- HESARAGHATTA KRISHNA-RAO, of Bangalore, India, B. Sc. Central College, Bangalore, 1933; M. B. B. S. Medical College, Mysore, 1940; D. P. H. All India Institute of Hygiene and Public Health, Calcutta, 1949.
- CARLOS ALFREDO RIVERA-ESCOBAR, of La Paz, Bolivia, M. D. University of San Andres, La Paz, 1932.
- ROBERT E. ROBARDS, U. S. Air Force, B. S. University of North Dakota, 1947; M. D., University of Pennsylvania, 1949.
- ELIAS SALES, of Barranquilla, Colombia, M. D. National University of Colombia, 1951.
- STEVEN SAWCHUK, of Philadelphia, Pa., A. B. Temple University, 1940; M. D. 1943.
- KLAUS WERNER SCHILDWACHTER, of Darmstadt-Eberstadt, Germany, M. D. University of Heidelberg, 1948.
- JAMES NELSON SHIVELY, U. S. Army, D. V. M. Kansas State College, 1946.
- W. B. SPENCER, U. S. Air Force, M. D. University of Texas, 1946.
- DONALD HENRY STUHRING, U. S. Air Force, A. B. Princeton University, 1947; M. D. Columbia University, 1950.
- WILLIAM WESLEY THOMPSON, U. S. Air Force, B. S. Washington College, 1938; M. D. University of Maryland, 1950.
- STANLEY C. WHITE, U. S. Air Force, A. B. Miami University, 1945; M. D. University of Cincinnati, 1949.
- MA NWE WIN, of Rangoon, Burma, M. B. B. S. Medical Faculty University of Rangoon, 1949.
- ALFREDO ZEPEDA, of San Salvador, El Salvador, M. D. National University of El Salvador, 1942.

ORDER OF EVENTS

THE JOHNS HOPKINS UNIVERSITY

Commencement Exercises

Tuesday, June 9, 1953

THE MARSHAL

"The invocation will be offered by The Reverend Vernon B. Richardson."
(Members of the academic procession will remove their caps and leave them off, except as indicated below.)

CHAPLAIN

Chaplain steps forward to microphone and offers the invocation.

MUSIC

All will remain standing for the singing of one stanza of the National Anthem.
All are seated.

THE PRESIDENT

The President rises, without introduction, and extends greetings to the candidates for degrees. He introduces The Honorable Walter S. Gifford.

MR. GIFFORD

Rises, steps to Speaker's stand, delivers address.

CONFERRING OF HONORARY DEGREESTHE MARSHAL

Rises, puts on his cap and announces, Mr. Carlyle Barton will present Walter Sherman Gifford for the honorary degree of Doctor of Laws."

MR. BARTON

Rises, puts on cap steps to microphone and reads the citation.

THE PRESIDENT

As Mr. Barton addresses the President (Mr. President), Dr. Bronk rises.

MR. GIFFORD

As Dr. Bronk rises, Mr. Gifford rises and faces Dr. Bronk.

THE PRESIDENT

"Walter Sherman Gifford, in recognition (Dr. Bronk fills in here)....by the due authority of the State of Maryland, invested in the trustees of this University and by them entrusted to me, I admit you to the degree of Doctor of Laws, honoris causa, and thereby declare you entitled to all its rights, honors and privileges.

PARTICIPANTS

Mr. Gifford accepts the diploma in his left hand and removes his cap with his right hand. Mr. Barton is standing behind Mr. Gifford as he places the LL.D. hood on him. Mr. Gifford puts on his cap. Dr. Bronk shakes his hand. All are seated.

THE MARSHAL

"Dr. Clauser will present Hugh Latimer Dryden for the honorary degree of Doctor of Laws."

DR. CLAUSER

Rises, puts on his cap, steps to the microphone and reads the citation.

THE PRESIDENT

As Dr. Clauser addresses the President (Mr. President), Dr. Bronk rises.

DR. DRYDEN

As Dr. Bronk rises, Dr. Dryden rises and faces Dr. Bronk.

THE PRESIDENT

"Hugh Latimer Dryden, in recognition of (fill in), by due authority of the State of Maryland, invested in the trustees of this University and by them entrusted to me, I admit you to the degree of Doctor of Laws, honoris causa, and thereby declare you entitled to all its rights, honors, and privileges."

PARTICIPANTS

Dr. Dryden accepts the diploma in his left hand and removes his cap with his right hand. Dr. Clauser is standing behind Dr. Dryden as he places the LL.D. hood on him. Dr. Dryden replaces his cap. Dr. Bronk shakes his hand. All are seated.

THE MARSHAL

"Dr. Boas will present Luther Pfahler Eisenhart for the honorary degree of Doctor of Laws."

DR. BOAS

Rises, puts on his cap, steps to microphone, reads the citation.

THE PRESIDENT

As Dr. Boas addresses the President (Mr. President), Dr. Bronk rises.

DR. EISENHART

As Dr. Bronk rises, Dr. Eisenhart rises puts on his cap, and faces Dr. Bronk.

THE PRESIDENT

"Luther Pfahler Eisenhart, in recognition of (fill in)... by authority of the State of Maryland, invested in the trustees of this University and by them entrusted to me, I admit you to the degree of Doctor of Laws, Honoris causa, and thereby declare you entitled to all its rights, honors, and privileges."

PARTICIPANTS

Dr. Eisenhart accepts diploma with his left hand and removes his cap with his right hand. Dr. Boas is standing behind Dr. Eisenhart as he places LL.D. hood on him. Dr. Eisenhart puts on his cap. Dr. Bronk shakes his hand. All are seated.

THE MARSHAL "Dr. Morgan will present Karl Spencer Lashley for the honorary degree of Doctor of Laws."

DR. MORGAN Rises, puts on his cap, steps to microphone, reads citation.

THE PRESIDENT As Dr. Morgan addresses the President (Mr. President), Dr. Bronk rises.

DR. LASHLEY As Dr. Bronk rises, Dr. Lashley rises, puts on his cap and faces Dr. Bronk.

THE PRESIDENT "Karl Spencer Lashley, in recognition of (fill in here)... by authority of the State of Maryland, invested in the trustees of this University and by them entrusted to me, I admit you to the degree of Doctor of Laws, Honoris Causa, and thereby declare you entitled to all its rights, honors and privileges."

PARTICIPANTS Dr. Lashley accepts diploma with his left hand and removes his cap with his right hand. Dr. Morgan is standing behind Dr. Lashley as he places the LL.D. hood on him. Dr. Lashley then puts on his cap. Dr. Bronk shakes his hand. All are seated.

THE MARSHAL "Dr. Woods will present Frederick Herman Verhoeff for the honorary degree of Doctor of Laws."

DR. WOODS Rises, puts on his cap, steps to microphone, reads citation.

THE PRESIDENT As Dr. Woods addresses the President (Mr. President), Dr. Bronk rises.

DR. VERHOEFF As Dr. Bronk rises, Dr. Verhoeff rises, puts on his cap and faces Dr. Bronk.

THE PRESIDENT "Frederick Herman Verhoeff, in recognition of (fill in here).. by due authority of the State of Maryland, invested in the trustees of this University and by them entrusted to me, I admit you to the degree of Doctor of Laws, Honoris Causa, and thereby declare you entitled to all its rights, honors and privileges."

THE PARTICIPANTS Dr. Verhoeff accepts the diploma with his left hand and removes his cap with his right hand. Dr. Woods is standing behind Dr. Verhoeff as he places the LL.D. hood on Dr. Verhoeff. Dr. Verhoeff puts on his cap. Dr. Bronk shakes his hand. All are seated.

CONFERRING OF DEGREES ON CANDIDATES (NOTE BELOW)

THE MARSHAL

"The degrees will be conferred in the order indicated on the program. It is requested that there be no applause until the complete list of candidates for each degree has been conferred. Dean Richard Cox will present the candidates from the College of Arts and Sciences."

DEAN COX

Rises, puts on cap, steps to microphone: "Mr. President, I have the honor to present the candidates for the degree of Bachelor of Arts." (Those receiving B. A. rise in a body. The candidates file, beginning at the outside of each row, up to the Speaker's stand. As Dr. Cox reads each name, the candidate will be greeted by the President and return to his seat.) Candidates remain standing.

THE PRESIDENT

"By authority of the State of Maryland granted to the trustees of this University and by them entrusted to me, I hereby admit you to the degree of Bachelor of Arts, and declare you entitled to all the appropriate rights, honors and privileges."
All are seated.

THE MARSHAL

"Dean Kouwenhoven will present the candidates for degrees in Engineering."

KOUWENHOVEN

Rises, puts on cap, steps to microphone: "Mr. President, I have the honor to present the candidates for the degrees of Bachelor of Engineering, Master of Engineering, and Doctor of Engineering." (Those receiving these degrees rise in a body. Candidates file, beginning at outside of each row, up to Speaker's stand. As Dr. Kouwenhoven reads each name, candidate is greeted by the President, receives his diploma and marches back to his seat.)

THE PRESIDENT

"By authority of the State of Maryland granted to the trustees of this University and by them entrusted to me, I hereby admit you to the degrees indicated with all appropriate rights, honors and privileges."
All are seated.

THE MARSHAL

"Professor Roy will present the candidates from the School of Business."

*The names of those receiving the degree in absentia will not be read.

PROFESSOR ROY

Rises, puts on cap, steps to microphone: "Mr. President, I have the honor to present the candidates for the degree of Bachelor of Science in Business." (Those receiving this degree will rise in a body. Candidates will file, beginning at outside of each row, up to Speaker's stand. As Professor Roy reads each name, candidate is greeted by President, receives his diploma, marches back to his seat.

Candidates will remain standing.

THE PRESIDENT

"By due authority of the State of Maryland granted to the trustees of this University and by them entrusted to me, I declare you admitted to the degree of Bachelor of Science in Business, with all the appropriate rights, honors and privileges."

THE MARSHAL

"Dr. Mumma will present the candidates for the degrees of Bachelor of Science and Bachelor of Science in Nursing, Master of Education, and Doctor of Education."

DR. MUMMA

Rises, puts on cap, steps to the microphone and says: "Mr. President, I have the honor to present the candidate for the degrees of Bachelor of Science and Bachelor of Science in Nursing, Master of Education and Doctor of Education." (The candidates will rise in a body and file, beginning at outside of each row, up to the Speaker's stand.) As Dr. Mumma reads each name, the candidate is greeted by President, receives his diploma, returns to his seat.

Candidates will remain standing.

THE PRESIDENT

"By authority of the State of Maryland granted to the trustees of this University and by them entrusted to me, I hereby admit you to the degrees indicated with all the appropriate rights, honors and privileges."

All are seated.

THE MARSHAL

"Dr. Stebbins will present the candidates for degrees from the School of Hygiene and Public Health."

STEBBINS

Rises, puts on cap, steps to microphone: "Mr. President, I have the honor to present the candidates for the degrees of Master of Science in Hygiene, Doctor of Science in Hygiene, Master of Public Health, and Doctor of Public Health." (Those candidates receiving these degrees will rise in a body. Candidates will file, beginning at outside of each row, up to Speaker's stand.) As Dr. Stebbins reads each name, the candidate will be greeted by the President, receive his diploma and march back to his seat.

Candidates will remain standing.

THE PRESIDENT

"By authority of the State of Maryland granted to the trustees of this University and by them entrusted to me, I hereby admit you to the degrees indicated, with all the appropriate rights, honors and privileges."

All are seated.

THE MARSHAL

"Dean Chesney will present the candidates for degrees from the School of Medicine."

CHESNEY

Rises, puts on cap, steps to microphone: "Mr. President, I have the honor to present the candidates for the degree of Doctor of Medicine. (Candidates for this degree rise in a body and file, at outside of each row, up to Speaker stand.) As Dean Chesney reads each name, the candidate is greeted by President, receives his diploma, and returns to his seat.

Candidates remain standing.

THE PRESIDENT

"By authority of the State of Maryland granted to the trustees of this University and by them entrusted to me, I hereby admit you to the degree indicated with all the appropriate rights, honors and privileges."

All are seated.

THE MARSHAL

Professor Haines will present the candidates for the degree of Master of Arts in the School of Advanced International Studies."

HAINES

Rises, puts on cap, steps to microphone: "Mr. President, I have the honor to present the candidates for the degree of Master of Arts. (Candidates for this degree rise in a body and file, at outside of each row, up to Speaker's stand.) As Professor Haines reads each name, the candidate is greeted by the President, receives his diploma, and returns to his seat.

Candidates will remain standing.

THE PRESIDENT

"By due authority of the State of Maryland granted to the trustees of this University and by them entrusted to me, I hereby admit you to the degree indicated with all the appropriate rights, honors and privileges."

All are seated.

THE MARSHAL

"Professor Lancaster will present the candidates for degrees of Master of Arts and Doctor of Philosophy."

LANCASTER

Rises, puts on cap, steps to microphone: "Mr. President, I have the honor to present the candidates for the degrees of Master of Arts and Doctor of Philosophy." (Candidates will file, beginning at outside of each row, up to Speaker's stand.) As Dr. Lancaster reads each name, candidate will be greeted by President, receive his diploma, and march back to his seat.

Candidates will remain standing.

THE PRESIDENT

"By due authority of the State of Maryland granted to the trustees of this University and by them entrusted to me, I hereby admit you to the degrees indicated with all appropriate rights, honors and privileges."

All are seated.

THE MARSHAL

"The chaplain will pronounce the benediction. The audience is requested to remain standing until the faculty has left the area."

THE CHAPLAIN

Rises, pronounces benediction.

RECESSIONAL

Following the benediction, the organist will begin the recessional. Faculty and invited guests will leave the stage in order indicated on chart.

DOCTOR OF PUBLIC HEALTH

WITH TITLES OF THESES

JOHN HOWIE FLINT BROTHERSTON, of London, England, M. A. University of Edinburgh, 1935; M. B., C. H. B., 1940; Diploma of Public Health, London School of Hygiene and Tropical Medicine, 1947. Public Health Administration.

Some Observations on Public Health Training in American Schools of Public Health.

FRATIS L. DUFF, U. S. Air Force, B. S. University of Oklahoma, 1933; M. D. 1939; M. P. H. The Johns Hopkins University, 1950. Epidemiology.

The Effects of Geography, Season and Length of Military Service upon Common Respiratory Disease in the United States Army.

LEON ROSEN, U. S. Public Health Service, A. B. University

of California, 1945; M. D. 1948; M. P. H. 1950. Epidemiology.

Observations on the Epidemiology of Filariasis in French Oceania.

CHESTER BRYANT STEWART, of Halifax, N. S., Canada, B. Sc. Dalhousie University, 1936; M. D. C. M., 1938; M. P. H. The Johns Hopkins University, 1946. Epidemiology.

Studies on BCG Vaccination.

KNUT BIRGER WESTLUND, of Oslo, Norway, M. D., University of Oslo, 1949; M. P. H. The Johns Hopkins University, 1951. Epidemiology.

Studies on Multiple Sclerosis in Winnipeg, Manitoba and New Orleans, Louisiana.

(5)

DOCTORS OF MEDICINE

WESLEY LAFAYETTE ASKEW, JR., of Amarillo, Tex., A. B. Texas Technological College, 1949.

FLAVIUS L. AUSTIN, JR., of Roswell, N. Mex., A. B. The Johns Hopkins University, 1949.

BRUCE GREGORY BELT, of Los Angeles, Calif., S. B. Stanford University, 1949.

DANIEL SEYMOUR BERNSTEIN, of Baltimore, Md., A. B. Haverford College, 1949.

DONALD BERNHARD BROERING, of Hempstead, L. I., N. Y., A. B. Princeton University, 1949.

HUBERT MARION BROWN, of Wichita Falls, Tex., A. B. The Johns Hopkins University, 1949.

HUGH MICHAEL BROWN, of Clarksburg, W. Va., A. B. West Virginia University, 1949.

LOUIS GEORGE CIAN, of Garfield, N. J., S. B. Alabama Polytechnic Institute, 1949.

IRVING LEONARD COOPERSTEIN, of Baltimore, Md., A. B. The Johns Hopkins University, 1949.

EDWARD HOLMES COPENHAVER, III, of Baltimore, Md., S. B. Duke University, 1949.

MARIA ANTOINETTE CREA, of Youngstown, Ohio, A. B. Western Reserve University, 1949.

MARVIN LEWIS DAVES, of Lexington, Va., A. B. Washington and Lee University, 1948.

HUGH JAMES DAVIS, of Thorsby, Ala., S. B. University of Georgia, 1949.

LIK KIU DING, of Singapore, Malaya, S. B. Randolph-Macon College, 1950.

WALLACE WAYNE DUNCAN, of Alpine, Tex., S. B. Southwestern University, 1949.

THOMAS STERLING DUNN, JR., of Memphis, Tenn., S. B. University of Richmond, 1949.

JOHN THOMAS EAGAN, of Baltimore, Md., A. B. The Johns Hopkins University, 1949.

JOSÉ RAFAEL ENSEÑAT-RAMOS, of Aquadilla, Puerto Rico, S. B. University of Puerto Rico, 1949.

DANIEL CLARK WHARTON FINNEY, of Baltimore, Md., A. B. Princeton University, 1949.

WILLIAM HAMMOND MILTON FINNEY, of Baltimore, Md., A. B. Princeton University, 1948.

STEPHEN JOSEPH GALLA, of Detroit, Mich., S. B. University of Notre Dame, 1949.

EARL POTTER GALLEHER, JR., of Baltimore, Md., A. B. Princeton University, 1949.

JACK SUMNER GANS, of Roxbury, Mass., A. B. The Johns Hopkins University, 1949.

RUSSELL ORIN GEE, of Inglewood, Calif., S. B. Billings Polytechnic Institute, 1940.

JOHN STANLEY GETTS, of Monrovia, Calif., A. B. Pomona College, 1949.

LEWIS EDWARDS GIBSON, of Atlanta, Ga., A. B. Princeton University, 1949.

GEORGE GEIGER GLENNER, of Chicago, Ill., A. B. The Johns Hopkins University, 1949.

WILLIAM ANDERSON GRACIE, JR., of Cumberland, Md., A. B. Princeton University, 1949.

- TIMOTHY STONE HARRISON, of Berea, Ky., A. B. Hope College, 1949.
- RICHARD ALAN HENRY, of Daytona Beach, Fla., S. B. University of Florida, 1948.
- EMERY CLINE HERMAN, JR., of La Grange, Ga., A. B. Emory University, 1949.
- FRANK THOMAS HOPKINS, of Baltimore, Md., A. B. Haverford College, 1949.
- JOHN STANLEY HUBBARD, of Sardinia, Ind., A. B. DePauw University, 1949.
- FRANK LYNN IBER, of Hamilton, Ohio, A. B. and A. M. Miami University, 1949.
- ROBERT WHORTON IRELAND, of Baltimore, Md., A. B. The Johns Hopkins University, 1949.
- GEORGE CHARLES KAISER, of Cranford, N. J., A. B. Lehigh University, 1949.
- ROBERT ALVIN KEPPEL, of Salisbury, N. C., A. B. Catawba College, 1949.
- HENRY LEROY KNOCK, JR., of Baltimore, Md., A. B. The Johns Hopkins University, 1949.
- TSUN-YEE KWAN, of Taipeh, Formosa, A. B. Rockford College, 1949.
- THOMAS WILLIAM LANGFITT, of Clarksburg, W. Va., A. B. Princeton University, 1949.
- GUY WHITMAN LEADBETTER, JR., of Washington, D. C., A. B. Bowdoin College, 1949.
- ROBERT IRVING LEVY, of Baltimore, Md., A. B. The Johns Hopkins University, 1949.
- ROBERT COLNOR LONERGAN, JR., of St. Petersburg, Fla., A. B. Duke University, 1949.
- CHRISTOPHER LONGCOPE, of Lee, Mass., A. B. Harvard University, 1949.
- NORMAN LOWE, of Oakland, Calif., A. B. The Johns Hopkins University, 1949.
- HARRY WALTER MASENHIMER, JR., of Lakewood, Ohio, A. B. Princeton University, 1949.
- THOMAS SCOTT McCAY, of Utica, Miss., S. B. Mississippi College, 1950.
- REYNOLD CLUFF MERRILL, of Baltimore, Md., S. B. Utah State Agricultural College, 1939; M. A. Stanford University, 1940 and Ph. D. 1942.
- JAMES WALTER MESSER, of Watertown, S. Dak., A. B. Harvard University, 1949.
- JOSEPH BOXLEY MILLER, JR., of Yazoo City, Miss., A. B. The Johns Hopkins University, 1949.
- WILLIAM BEN MILLER, of Billings, Mont., A. B. Dartmouth College, 1950.
- RICHARD FREDERICK MOSCHELL, of Baltimore, Md., A. B. University of Virginia, 1949.
- ANDREW MARTIN NEMETH, of Highland Park, N. J., A. B. The Johns Hopkins University, 1949.
- CLAYTON NORTON, of Muncie, Ind., A. B. The Johns Hopkins University, 1949.
- DALTON GORDON PAXMAN, JR., of Hayward, Calif., A. B. Stanford University, 1949.
- JOSEPH HAROLD PAXMAN, of Hayward, Calif., A. B. Stanford University, 1949.
- AMOS JEFFERSON PENFIELD, of Montreal, Canada, A. B. Princeton University, 1949.
- BARRY JOSEPH PLUNKETT, JR., of Forest Hill, Md., A. B. The Johns Hopkins University, 1949.
- JAMES COPELAND PRINGLE, JR., of Thomasville, Ga., S. B. Virginia Military Institute, 1949.
- ERIDA LEUSCHNER REICHERT, of San Francisco, Calif., A. B. Stanford University, 1949.
- RICHARD CLYDE REYNOLDS, of Kingston, N. Y., S. B. Rutgers University, 1949.
- EMIL JOSEPH RYSANEK, of Baltimore, Md., A. B. Princeton University, 1949.
- STEPHEN SCHILLIG, of Leland, Miss., S. B. Southwestern at Memphis, 1949.
- GERHARD SCHMEISSER, JR., of Baltimore, Md., A. B. Princeton University, 1949.
- GEORGE WARREN SETTLE, of Baltimore, Md., A. B. The Johns Hopkins University, 1950.
- WILLIAM MYLES SHELLEY, of Atlanta, Ga., S. B. Virginia Military Institute, 1949.
- PATRICIA MADELINE SMITH, of Baltimore, Md., A. B. Goucher College, 1949.
- ROBERT EUGENE SMITH, of San Clemente, Calif., A. B. Culver Stockton College, 1949.
- DONALD STRAUS, of New York, N. Y., A. B. Cornell University, 1948.
- CONRAD BYRON TEAGUE, of Oakland, Calif., A. B. University of California, 1949.
- ROBERT BOND WELCH, of Annapolis, Md., A. B. Princeton University, 1949.
- GLORIA RUTH GOLDSMITH WERTH, of Baltimore, Md., A. B. Goucher College, 1949.
- EZEKIEL HUNTER WILSON, JR., of Cambridge, Md., A. B. Princeton University, 1949.
- JOHN HOWARD YARDLEY, of Birmingham, Ala., A. B. Birmingham Southern College, 1949.
- JACK MCKAY ZIMMERMAN, of Scarsdale, N. Y., A. B. Princeton University, 1949.
- GEORGE DALE ZUIDEMA, of Holland, Mich., A. B. Hope College, 1949.

MASTERS OF ARTS

IN THE SCHOOL OF ADVANCED INTERNATIONAL STUDIES

- JACQUES CLAUDE ADES, of Paris, France, Diploma, Institute of Political Studies, Paris.
- ALDUS HIGGINS CHAPIN, of New York, N. Y., B. A. Harvard College, 1952.
- THEODORE MCSADDEN COLLIER, of Menlo Park, Calif., A. B. Stanford University, 1952.
- VICTOR DANON, of New York, N. Y., B. A. Syracuse University, 1951.
- POLA FOTITCH, of Washington, D. C., A. B. Mount Holyoke College, 1952.
- FRANCES JEAN FUGITT, of Beckley, W. Va., B. A. University of Cincinnati, 1951.
- DANIEL WOLF GOTTLIEB, of Bloomfield, Conn., B. A. Antioch College, 1952.
- FRANCIS STANLEY GRIFFIN, JR., of Clinton, N. Y., B. A. Hamilton College, 1953.
- ALFRED MARCEL GRONER, of Houston, Tex., B. A. Rice Institute, 1951.
- LUONG DINH HOANG, of Hanoi, Vietnam, A. B. Western Reserve University, 1952.
- FRANK JAMISON JOHNSON, of San Pedro, Calif., B. A. Dartmouth College, 1951.
- GEORGE BASIL LAMBRAKIS, of New York, N. Y., A. B. Princeton University, 1952.
- MANFRED LANDECKER, of Bridgeport, Conn., B. A. Syracuse University, 1952.
- ELMER NORTON LEAR, of Baltimore, Md., B. A. College of the City of New York, 1938 M. S., 1941; Ph. D. Columbia University, 1951.
- BEATRICE ANNE LEYDET, of Osterville, Mass., B. A. Wellesley College, 1951.
- GEORGE LAWRENCE MARLING, of Omaha, Neb., B. A. University of Omaha, 1952.
- WILLIAM CURTIS MESSNER, JR., of Elmhurst, Ill., B. A. The Principia, 1952.
- RICHARD LANGFORD PEPPERS, of Belleville, Ill., A. B. The George Washington University, 1952.
- DAVID EUGENE PFANNER, of New York, N. Y., B. A. Amherst College, 1952.
- ELEANOR RUBIN, of Berkeley Heights, N. J., B. A. New Jersey College for Women, 1951.
- RICHARD RUEDA, JR., of Dunellen, N. J., A. B. The George Washington University, 1952.
- DEREK STAUGHTON SINGER, of Roslyn, N. Y., B. A. New York University, 1952.
- JOHN BAILEY URNER, of Seattle, Wash., B. A. University of Washington, 1952.
- MARTHA ANN WILLOUGHBY, of New York, N. Y., B. A. The College of Wooster, 1951.

(24)

MASTERS OF ARTS

WITH TITLES OF ESSAYS

- ARTHUR AINSLEY AGETON, of Annapolis, Md., U. S. Naval Academy, 1923; B. S. 1947. Writing, Speech and Drama. *Sailor's Farewell: A Novel.*
- WILLIAM AARON ANDERSON, of Baltimore, Md., B. M. De Pauw University, 1950. Writing, Speech and Drama. *The Translation and Adaptation into English of the Operas: Così fan tutte, by Mozart; Cavalleria Rusticana, by Mascagni; Pagliacci, by Leonecavallo and Les Contes d'Hoffmann, by Offenbach.*
- JAMES CARL BAATZ, of Boston, Mass., B. S. Boston College, 1952. Chemistry.
- ERIC BAER, of Baltimore, Md. Chemistry.
- MARTIN JEAN BAILEY, of Porterville, Calif., A. B. University of California, Los Angeles, 1951. Political Economy. *Price Determination by a Firm Selling Related Products.*
- MARGARET MAY BENTLEY, of Berkeley, Calif., B. A. University of California, 1951. History. *The Crusading Plan of Philip The Good, Duke of Burgundy (1422-1467).*
- RICHARD PAUL BENTON, of Baltimore, Md., B. S. The Johns Hopkins University, 1952. Writing, Speech and Drama. *The Sea in the Plays of Eugene O'Neill.*
- STEPHEN DESIDERIUS BRUCK, of Baltimore, Md., B. S. Boston College, 1951. Chemistry.
- PAUL PARKER BURDON, JR., of Arnold, Md., B. A. The Johns Hopkins University, 1952. Writing, Speech and Drama. *The Duchess of Malfi: A Critical Study.*
- ALEJANDRO CALDERÓN GARCÍA, of Tacuba, Mexico, Geologist, National School of Engineers, National Autonomous University of Mexico, 1951. Geology.

- MICHAEL RICHARD CAMPO, of Hartford, Conn., B. A. Trinity College, 1948. Romance Languages.
- BEVERLY CANNING, of Baltimore, Md., A. B. Goucher College, 1949. Writing, Speech and Drama.
A Study of the Vocal Aspects of a Reading by James Joyee from His Own Works.
- LOUIS DORSEY CLARK, of Baltimore, Md., A. B. St. John's College, 1927. Education.
- CHARLES W. COOLIDGE, of Gambier, Ohio, B. A. Oberlin College, 1947. History.
The Finances and Administration of the Anglican Church 1820-1848.
- RALPH KIRBY DAVIDSON, of Baltimore, Md., B. A. Oxford University, 1950. Political Economy.
The "Excess Burden" of Indirect Taxation.
- TOM EDWARD DAVIS, of Akron, Ohio, A. B. Tufts College, 1950. Political Economy.
The Consumption Function as a Tool for Prediction.
- WARREN EMERY DEDERICK, of Sea Girt, N. J., A. B. The Johns Hopkins University, 1950. Writing, Speech and Drama.
Aspects of Educational Television.
- RAYMOND VINCENT DUNN, S. J., of Boston, Mass., A. B. Boston College, 1950; M. A. 1951. Oriental Seminary.
- PAUL EILBERG, of Baltimore, Md., B. S. The Johns Hopkins University, 1951. Education.
- MADELEINE ENGEL-JANOSI, of Washington, D. C., A. B. Trinity College, 1950. History.
The Course of the Austrian Anschluss, January 1, 1938—March 11, 1938.
- ROLAND RAYMOND EPPLEY, JR., of Baltimore, Md., A. B. The Johns Hopkins University, 1953. Political Economy.
Residential Development in Baltimore City and Baltimore County.
- JEAN MARGARET FARLEY, of Philadelphia, Pa., B. A. Women's College, University of North Carolina, 1950. Writing, Speech and Drama.
Poems.
- ALFRED P. FEHL, of Smithsburg, Md., A. B. Gettysburg College, 1935. English.
The Speech of Smithsburg, Maryland.
- DIANA FARNHAM FISKE, of Baltimore, Md. Writing, Speech and Drama.
A Half Hour from the Capitol and other stories.
- JOHN FREDERICK FRANK, of Seven Valleys, Pa., B. S. Northwestern University, 1939. Writing, Speech and Drama.
Grand Avenue: A Novel.
- HARRY GORDON FRANKFURT, of Baltimore, Md., A. B. The Johns Hopkins University, 1949. Philosophy.
- JOHN FRECCERO, of New York, N. Y., A. B. The Johns Hopkins University, 1952. Romance Languages.
- GILBERT FRANK GILCHRIST, of Charleston, S. C., B. A. University of the South, 1949. Political Science.
The Political Thought of James Harrington.
- RICHARD ELMER GINTER, of Cleveland, Ohio, B. A. Western Reserve University, 1951. Education.
School Achievement in the Fundamentals: Then and Now.
- PER GLOERSEN, of Baltimore, Md. Physics.
- HENRY N. GOLDSTEIN, of Hampton, Va., A. B. University of North Carolina, 1950. Political Economy.
A Study of Post World War II Inflation and Exchange Control in Peru.
- BASIL GORDON, of Gibson Island, Md. Mathematics.
- ROBERT JOHN GROSS, of Baltimore, Md., A. B. The Johns Hopkins University, 1952. Chemistry.
- HELEN ESTELLE HALE, of Baltimore, Md., A. B. Goucher College, 1935. Education.
The Relationship between Curriculum and Facilities in the Junior High School Science Sequence of the Baltimore County, Maryland, Public Schools.
- ROBERT HAMILTON, of Bangor, Me. Psychology.
- ROBERT PAUL HAMLEN, of Chatham, N. J., B. S. Lafayette College, 1951. Chemistry.
- CHARLES HERBERT HAWKINS, of Baltimore, Md., B. A. Morgan State College, 1951. Romance Languages.
- JOHN ROBERT HENDRICKSON, of Santa Cruz, Calif., A. B. The Johns Hopkins University, 1953. Writing, Speech and Drama.
A Study of Form and Content in Dostoevsky's Major Novels.
- PAULINE TUSTIN HOBBS, of Baltimore, Md., A. B. Goucher College, 1936; M. A. (English) The Johns Hopkins University, 1949. Writing, Speech and Drama.
The Carrousel Turns.
- NORMAN ARTHUR HULME, of Baltimore, Md., B. S. Philadelphia College of Pharmacy and Science, 1950. Biology.
A Method for Quantitatively Separating and Assaying Choline and Dimethylethanolamine in Animal Tissues.
- ALINE HAZEL JONES, of Baltimore, Md., A. B. Queens College, 1947. Chemistry.
- BARRETT M. KIDWELL, of Baltimore, Md., A. B. Goucher College, 1934. Writing, Speech and Drama.
Kenneth Burke, Propagandist and Craftsman: An Interpretation and Evaluation.
- PHILIP ATHERTON KNACHEL, of Indianapolis, Ind., B. S. Northwestern University, 1948. History.
A Study of the Cartulary of St. Aubin D'Angers.

- ROBERT ALLEN LANDOWNE, of Brooklyn, N. Y., B. S. University of Michigan, 1952. Chemistry.
- EPHRAIM YALE LEVIN, of Baltimore, Md. Biological Sciences.
Stabilizing Action of Substrate on Thermal Denaturation of Pyrophosphatase.
- PETER MICHAEL LEWINSOHN, of Crownsville, Md., B. S. Allegheny College, 1951. Psychology.
- ROBERT LISLE, of Ruxton, Md., A. B. Harvard University, 1950. Classics.
- JANET DAVIS LYNN, of Baltimore, Md., B. A. Barnard College, 1939. Political Science.
An Analysis of Public Policy Governing Voluntary Medical Care Insurance.
- RICHARD ALAN MACKSEY, of Montclair, N. J. Writing, Speech and Drama.
The Flaming Heart. Richard Crashaw as a Study in Baroque Style and Sensibility.
- PARSHOTAM LAL MEHRA, of Amritsar, India, B. A. Hindu-Sebha College, 1940; M. A. Government College at Lahore, 1942. International Relations.
India and Tibet, 1900-1925.
- CHARLES CHRISTIAN OEHRING, of Baltimore, Md. Mathematics.
- ROBERT NORMAN PATY, of Decatur, Ga., A. B. Sarah Lawrence College, 1950. History.
The Development of Japan's Continental Policy: 1922-31.
- MARTIN JACOB POLLAK, of Annapolis, Md., A. B. Harvard University, 1938. Oceanography.
- ALFRED PROCK, of Baltimore, Md., B. E. The Johns Hopkins University, 1951. Chemistry.
- WILLIAM ROBERT RENNAGEL, of Eden, N. Y., B. S. University of Rochester, 1952. Chemistry.
- CHANTAL SALMON-LEGAGNEUR, of Paris, France, Dipl. Ing. Higher School of Optics, Paris, 1950; University of Paris. Physics.
The Hollow Cathode Discharge.
- THOMAS SEWELL SCHREIBER, of Baltimore, Md. Physics.
Theory of Plasma Oscillations.
- MORRIS MEYER SHIELDS, of New York, N. Y., Oriental Seminary.
- STEPHEN DARBY SIMMONS, of Washington, D. C., B. S. Columbia University, 1950. Oriental Seminary.
- MARTIN STANLEY TISCHLER, of University City, Mo., B. S. Missouri School of Mines and Metallurgy, 1951. Geology.
- LESLIE JAMES TODD, of Kent, Ohio, B. S. Kent State University, 1951. Chemistry.
- ALAN WALTON, of Lawrence, Kans., B. A. University of London, 1950. History.
The Life and Thought of John Hales 1584-1656.
- JUNE MILLER WEISBERGER, of Yellow Springs, Ohio, B. A. Swarthmore College, 1951. History.
The Early Victorian Country Parson.
- WELTY KENNEY WITHERS, of Jacksonville, Fla., A. B. Duke University, 1951. English.
- JOSEPH KIEFFER WOLFINGER, of Gettysburg, Pa., A. B. St. Johns College, 1926. English.
- IRA WILLIAM ZARTMAN, of Falls Church, Va., Political Science.
The Repatriation of Displaced Persons in Schleswig-Holstein.

(66)

DOCTORS OF PHILOSOPHY

WITH TITLES OF DISSERTATIONS

- LLOYD LLEWELLYN ARNOLD, II, of Chicago, Ill., A. B. Knox College, 1948. Philosophy.
Aristotle's Biological Concepts and Methods in the Light of Modern Biology.
- GEORGE THOMAS ARTOLA, of New York, N. Y., M. A. The Johns Hopkins University, 1950. Oriental Seminary.
The Pañcatantra of Southern India.
- RALPH FREEMAN BALDWIN, of Washington, D. C., A. B. Boston College, 1939; M. A., 1941. English.
The Unity of the Canterbury Tales.
- DEWEY MAURICE BEEGLE, of New York, N. Y., B. S. Seattle Pacific College, 1938; B. D. Asbury Theological Seminary, 1948. Oriental Seminary.
Proper Names in the Dead Sea Isaiah Scroll (DSIa), with a Detailed Examination of the Use of the Vowel Letters Waw and Yod.
- ROBERT FOSTER BLACK, of Falls Church, Va., B. A. College of Wooster, 1940; M. A. Syracuse University, 1942. Geology.
Fabrics of Ice Wedges.
- LOUIS PAUL BOLGIANO, JR., of Baltimore, Md., B. S. Haverford College, 1943; M. A. The Johns Hopkins University, 1947. Physics.
The Continuous Gamma-Ray Spectrum Accompanying Beta-Decay.
- ALEXANDER ROURKE BUTLER, of Baltimore, Md., A. B. Harvard University, 1942. History.
McKim's Renaissance: A Study in the History of the American Architectural Profession.

- JAMES W. CARPER, of Oyster Point, Va., B. A. Indiana University, 1949; M. A. The Johns Hopkins University, 1951. Psychology.
A Comparison of the Reinforcing Value of a Nutritive and Non-Nutritive Substance under Conditions of Specific and General Hunger.
- JOHN RICHARD CARY, of Haverford, Pa. German.
Antithesis as a Principle of Structure and Technique in the Novels of Theodor Fontane.
- WINSLOW SPAULDING CAUGHEY, of Antrim, N. H., B. S. University of New Hampshire, 1948; M. S., 1949. Chemistry.
The Stability of Metalloetioporphyrins toward Acids.
- CLIFTON CYRIL CHERPACK, of New Britain, Conn., A. B. Trinity College, 1949; M. A. The Johns Hopkins University, 1951. Romance Languages.
Persia of the Sassanids in French Classical Tragedy.
- TSE-SUN CHOW, of Baltimore, Md., B. S. M. E. Chiao-Tung University, 1943; M. Sc. Leeds University, 1949. Aeronautics.
Studies of the Navier-Stokes Equation in a Wave Number Space.
- ALFRED WILLIAM COATS, of Middlesex, England, B. S. London University, 1948; M. Sc., 1950. Political Economy.
Methodological Controversy as an Approach to the History of American Economics 1885-1930.
- DONALD FRANCIS ROY COCHRAN, of San Francisco, Calif., B. S. University of California, 1948. Chemistry.
A Comparative Study of Radio Frequency and Low Voltage Arc Types of Ion Source—The Construction of a Low Voltage Accelerator.
- LESLIE COHEN, of Baltimore, Md., A. B. The Johns Hopkins University, 1944. Physics.
Angular Correlations in the Deuteron-Beryllium Reactions.
- HAROLD TREVOR COLBOURN, of Poole, Dorset, England, B. A. University College of the Southwest, Exeter, 1948; M. A. College of William and Mary, 1949. History.
The Saxon Heritage: Thomas Jefferson Looks at English History.
- JOHN COLLINSON, of Highland Park, Mich., A. B. The Johns Hopkins University, 1941. Philosophy.
The Structure of Berkeley's Empiricism in The Principles.
- ALFRED JOSEPH COULOMBRE, of Dorchester, Mass., B. S. Catholic University of America, 1947; M. S., 1949. Biology.
Correlations of Structural and Biochemical Changes in the Developing Retina of the Chick.
- CECIL VANMETER CRABB, JR., of Mt. Pleasant, Tenn., A. B. Centre College, 1947; M. A. Vanderbilt University, 1948. Political Science.
The President, Congress, and American Foreign Relations 1942-1952: The Quest for a Bi-Partisan Foreign Policy.
- RAMÓN EDUARDO DE ZUBIRÍA, of Cartagena, Colombia. Romance Languages.
La Poesia de Antonio Machado.
- CHARLES EDWARDS, of Hyattsville, Md., A. B. The Johns Hopkins University, 1945; M. A., 1948. Biophysics.
The Glucose Metabolism of Sympathetic Ganglia.
- WERNER J. FRIES, of Baltimore, Md., B. S. The Johns Hopkins University, 1948; M. A., 1952. German.
Das Spiegelsymbol im Werke Jakob Wassermanns.
- LAWRENCE WELLBURN FAGG, of Baltimore, Md., B. S. U. S. Military Academy, 1945; M. S. University of Maryland, 1947; M. A. University of Illinois, 1948. Physics.
Polarization of the O^{16} Gamma Rays.
- ROBERT THOMPSON FROST, of Baltimore, Md., A. B. The Johns Hopkins University, 1949. Physics.
Three-Body Reactions Induced by the Deuteron Bombardment of Lithium and Beryllium.
- HENRY ALEXANDER HARBURY, of Santa Barbara, Calif., A. B. Cornell University, 1947. Physiological Chemistry.
A Potentiometric Investigation of the Horseradish Peroxidase System: The Development of Experimental Techniques for, and the First Results of, a Systematic Study.
- ROBERT BENEDICT HINMAN, of Detroit, Mich., A. B. Wayne University, 1941. English.
Abraham Cowley and The New Philosophy.
- RAY HYMAN, of Everett, Mass., A. B. Boston University, 1950. Psychology.
Stimulus Information as a Determinant of Reaction Time.
- ROBERT DURENE JACOBS, of Towson, Md., B. A. University of Mississippi, 1937; M. A., 1938. English.
Poe's Heritage from Jefferson's Virginia.
- FRED TULLOCH JOHNSON, of Baltimore, Md., A. B. The Johns Hopkins University, 1943. Physics.
The Fine Structure in the Thick Target Continuous X-Ray Spectrum near the High Frequency Limit.
- R. WERNER JUHLE, of Ironsides, Md. Geology.
Iliamna Volcano and Its Basement.
- IRWIN RAPHAEL KONIGSBERG, of Brooklyn, N. Y., A. B. Brooklyn College, 1948. Biology.
The Effects of Early Decapitation on Carbohydrate Metabolism of the Chick Embryo.

- NORMAN JOHN KARL KRETZMANN, of Chicago, Ill., A. B. Valparaiso University, 1949. Philosophy.
Semiotic and Language Analysis in the Philosophies of the Enlightenment.
- GERTRUDE D. MAENGWYN-DAVIES, of Baltimore, Md., M. of Pharmacy Vienna University, 1937. Biology.
Mammalian Aryl-sulfatase: An Enzyme Study in Vitro and Its Possible Application to Histochemistry.
- JOE THOMAS MASSEY, of Takoma Park, Md., B. S. E. E. North Carolina State College, 1938. Physics.
The Microwave Spectrum of the Hydrogen Peroxide Molecule.
- PAUL CALVIN MAYBURY, of Haverhill, Mass., B. S. Eastern Nazarene College, 1947. Chemistry.
The Kinetics of Two Exchange Reactions Involving Diborane.
- ROBERT JASON MELTZER, of Brooklyn, N. Y., B. S. Rensselaer Polytechnic Institute, 1942. Physics.
Prism Spectra of Water Vapor from 12-24 Microns.
- MARJORIE HARRIS MELVILLE, of Macon, Ga., B. A. Agnes Scott College, 1947; M. A. The Johns Hopkins University, 1949. Chemistry.
Chelate Compounds of Pyrrole Pigments.
- JUDICA IGNATIA HENDRIKA MENDELS, of Baltimore, Md., M. A. The Johns Hopkins University, 1950. German.
Das "Bergbüchlein": A Text Edition.
- MERTON HOWARD MILLER, of Boston, Mass., A. B. Harvard University, 1943. Political Economy.
Price Discrimination in the Railway Industry.
- RALPH MAKOTO MIWA, of Honolulu, Territory of Hawaii, A. B. University of Hawaii, 1948; M. A., 1950. Political Science.
The Ideology of Imperialism and Its Implications for Constitutional Reforms in Japan.
- CHARLES FRANK MOONEY, of Baltimore, Md., A. B. Drew University, 1942. Physics.
The Optical Properties of Deposits of Vaporized Silver Dielectrics.
- ROBERT OSBORNE MOORE, of Greenville, Pa., A. B. Wittenberg College, 1937. Romance Languages.
The Last Plays of Brieux.
- RICHARD PETER NICKELSEN, of Lynbrook, N. Y., B. A. Dartmouth College, 1949; M. A. The Johns Hopkins University, 1951. Geology.
The Geology of Northwestern Loudoun County, Virginia.
- SONIA FELLNER OSLER, of Baltimore, Md., B. A. Hunter College, 1933; M. A. The Johns Hopkins University, 1951. Psychology.
Intellectual Performance as a Function of Two Types of Psychological Stress.
- ROBERT OSCAR PAYNE, of Coos Bay, Oreg., B. A. University of Oregon, 1948; M. A. The Johns Hopkins University, 1951. English.
The Function of Rhetoric in Chaucer's Style: Troilus and Criseyde.
- WILLIAM THOMAS POLLOCK, of Morgantown, W. Va., A. B. West Virginia University, 1949; M. A. The Johns Hopkins University, 1951. Psychology.
The Visibility of a Target as a Function of Its Speed of Movement.
- JOHN SEWARD PRUITT, of Philadelphia, Pa., B. S. Antioch College, 1947. Physics.
Energies and Angular Distributions of Neutrons from $\text{Be}^9(d, n)\text{B}^{10}$.
- MAYNARD EDWARD PULLMAN, of Chicago, Ill., B. S. University of Illinois, 1948; M. S., 1950. Biology.
On the Structure of Reduced Pyridine Nucleotides.
- BEROL LEE ROBINSON, of Detroit, Mich., A. B. Harvard University, 1948. Physics.
Polarization and Directional Correlations of Cascade Gamma Rays.
- CHARLES EDWIN ROOS, of New York, N. Y., A. B. Texas University, 1948. Physics.
A New Method for Measuring Auger Transitions.
- WILLIAM JASPER SANDO, of Washington, D. C., A. B. The Johns Hopkins University, 1950; M. A., 1951. Geology.
The Stratigraphy and Paleontology of the Western Belt of the Beekmantown Group in Maryland.
- H. WILLIAM SAUSE, of Baltimore, Md., A. B. The Johns Hopkins University, 1948. Chemistry.
Approaches to the Synthesis of Isocaryophyllenic Acid.
- GERTRUDE GUYTON SCHROEDER, of Washington, D. C., A. B. Colorado State College, 1940; M. A. The Johns Hopkins University, 1948. Political Economy.
The Growth of the Major Basic Steel Companies 1900-1948.
- STEPHEN MORRISON SHAFROTH, of Chevy Chase, Md., A. B. Harvard College, 1947. Physics.
Decay Scheme and Gamma-Gamma Correlations in B^{10} .
- JOEL ROBERT SIEGEL, of Baltimore, Md., A. B. The Johns Hopkins University, 1949; M. A., 1950. Chemistry.
Approaches to a Synthesis of the Phenyl Analogue of Auxin a Lactone.
- EDOUARD HORACE SIEGLER, JR., of Rowayton, Conn., A. B. The Johns Hopkins University, 1945. Physics.
Clean Up of Rare Gases in Electrodeless Discharges.
- JEAN GILLEN SMITH, of Baltimore, Md., A. B. Goucher College, 1950; M. A. The Johns Hopkins University, 1951. Chemistry.
A Study of the Standard Electrode Potential of the Cobalt-Cobaltous Ion Couple.

- BYRON K. THOMAS, of Small, Idaho, B. S. University of Idaho, 1942. Geology.
Geology of the Sugarloaf Mountain Area, Maryland.
- JOHN ANDREWS VAN EERDE, of Baltimore, Md., B. A. Harvard University, 1938; M. A., 1939. Romance Languages.
The Rôle of the Valet in French Comedy between 1630 and 1789 as a Reflexion of Social History.
- ELI VELDER, of Baltimore, Md., A. B. The Johns Hopkins University, 1948. Education.
Teaching the Bible in the Jewish Schools of Europe in the Fifteenth and Sixteenth Centuries.
- PATRICK RUSSELL VINCENT, of Gloucestershire, England, B. A. University College of Hull, 1948. Romance Languages.
The Jeu de Saint Nicolas of Jean Bodel of Arras: A Literary Analysis.
- HENRY MILLARD WATTS, of Baltimore, Md., B. S. E. E. University of Missouri, 1942. Physics.
An Action at a Distance Theory of Gravitation.
- STANLEY NEWMAN WERBOW, of Washington, D. C., A. B. George Washington University, 1946. German.
Konjunktionale Adverbialsätze in oberdeutscher Unterhaltungsprosa des 15.-16. Jahrhunderts: Ein Beitrag zur stilistischen Syntax.
- JOHN CARROLL WHITAKER, of Baltimore, Md., B. S. Georgetown University, 1949. Geology.
The Geology of Catoctin Mountain, Maryland and Virginia.
- WALTER DANIEL WOSILAIT, of Racine, Wis., B. A. Wabash College, 1949. Biology.
A Pyridine Nucleotide-Quinone Reductase from Pea Seeds.

